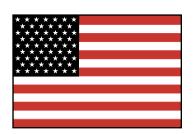




ADVISORY CIRCULAR 43–16A

AVIATION MAINTENANCE ALERTS



ALERT NUMBER 287



JUNE 2002

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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WASHINGTON, DC 20590

AVIATION MAINTENANCE ALERTS

The Aviation Maintenance Alerts provide a common communication channel through which the aviation community can economically interchange service experience and thereby cooperate in the improvement of aeronautical product durability, reliability, and safety. This publication is prepared from information submitted by those who operate and maintain civil aeronautical products. The contents include items that have been reported as significant, but which have not been evaluated fully by the time the material went to press. As additional facts such as cause and corrective action are identified, the data will be published in subsequent issues of the Alerts. This procedure gives Alerts' readers prompt notice of conditions reported via Malfunction or Defect Reports. Your comments and suggestions for improvement are always welcome. Send to: FAA; ATTN: Designee Standardization Branch (AFS-640); P.O. Box 25082; Oklahoma City, OK 73125-5029.

AIRPLANES

AERO COMMANDER

Aero Commander; Model 500S; Shrike; Hydraulic System Failure; ATA 2900

During flight, the pilot lost all hydraulic system pressure and quantity. He declared an emergency and landed the aircraft with minor damage and no personal injury.

The technician discovered a hydraulic system pressure line ruptured and depleted the system fluid. The hydraulic system pump pressure line (P/N 790246-167) and the supply line (P/N 790246-197) are routed forward of each main landing gear assembly and run from the engine-driven hydraulic pumps to the hydraulic system pressure regulator. As these lines are routed, there is distance of approximately 16 inches where they are not supported. It was in this area on the right side that the pressure line ruptured due to chafing and vibration during operation.

Access to the hydraulic lines at the defect location is very limited and difficult. The submitter suggested expending extra effort during scheduled inspections to ensure the lines are safe for continued operation. He recommended installing support clamps and a chafe block to prevent further damage to the hydraulic lines.

Part total time-2,994 hours.

Aero Commander; Model 560; Twin Commander; Defective Rudder Attachment; ATA 2720

During a scheduled inspection, a technician discovered a structural discrepancy with the rudder attachment.

The technician was checking the rudder for proper travel and noticed when the rudder contacted the stop, a small amount of hand pressure at the trailing edge caused the rudder to travel an additional inch. Inspecting further, he discovered all the rivets on the top and bottom of the rudder torque tube (P/N 5420014-157) were loose and/or worn.

The submitter speculated this damage occurred when the aircraft was parked outside in "gusty wind" conditions without installing the flight control surface locks. If this defect had not been found and fixed, the rudder control surface might have been lost during flight!

Part total time-6,247 hours.

BEECH

Beech; Model C24R; Sierra; Landing Gear Failure; ATA 3222

During a takeoff, the lower section of the nose landing gear separated from the aircraft. The pilot was not aware of this problem until FAA personnel notified him just prior to landing at the destination airport. With emergency personnel standing by, he made a successful landing without the aid of the nose gear. With only the lower portion of the nose gear missing, the gear position indications in the cockpit were normal (gear up or gear down).

While investigating the accident, an inspector discovered the bottom half of the nose gear strut housing was fractured at the collar assembly. (Refer to the illustration.) Both "tow limit" stop bolts and a nose steering rod-end were bent and distorted. These defects indicated the strut failure resulted from excessive stress imposed when the turn limits were exceeded while moving the aircraft on the ground.



It seems obvious that prevention of this type defect resides in proper training and motivation of personnel!

Part total time not reported.

Beech; Model F33A; Bonanza; Landing Gear Failure; ATA 3230

The pilot delivered the aircraft to a maintenance shop and reported the landing gear would not retract after takeoff.

Maintenance technicians placed the aircraft on jacks and cycled the landing gear. After cycling the gear several times, they determined the dynamic relay (Eaton P/N SM50D7) would occasionally "stick" in the down position and prevent gear retraction. After the dynamic relay was replaced, the landing gear system functioned properly.

The submitter did not give a cause for the dynamic relay failure. Given the relatively short time in service, it would seem the relay failure was premature. The FAA Service Difficulty Program data base contains 25 reported failures of the same part number relay. However, this part is used in different applications (wing flaps/landing gear) on different models of Beech aircraft including C-90, 1900, 58, and F33 Bonanza, as well as other aircraft.

Part total time-244 hours.

Beech; Model F33A; Bonanza; Defective Engine-Driven Fuel Pump; ATA 2822

During a scheduled inspection, a technician discovered engine oil leaking from the drain port on the engine-driven fuel pump (P/N 655243-2).

The technician investigated the problem and complied with Teledyne Continental Service Bulletin (CSB) 01-1, dated April 25, 2001. CSB 01-1, Figure 4, states certain fuel pumps (P/N 655243-2) are not affected. CSB 01-1 deals with fuel leakage from the pump drain port but does not mention oil leakage.

The submitter is involved with a large fleet of like aircraft. He stated, "A defective seal might leak fuel, oil, or a combination of the two. The leaks usually occur at lower engine power settings; however, air may be drawn into the fuel system at higher power settings causing rough engine operation." He recommended removing the fuel pump from service when any sign of fuel or oil stain is detected.

Part total time-442 hours.

Beech; Model 58; Baron; Defective Flight Control Cable; ATA 2730

While conducting a scheduled inspection, a technician found a defective elevator control cable.

The elevator cable (P/N 58-524015) was severely frayed and in danger of separation. The cable damage was located adjacent to the forward lower cable pulley. Aircraft flight control cables are susceptible to this type of damage at places where a change of direction is required or chafing action is encountered. Any change of cable direction causes the cable strands to bend and "work hardening" can occur. In this case, age and the high number of operating hours were likely factors for the fraying.

These areas deserve your full attention during scheduled inspections and maintenance.

Part total time-15,450 hours.

Beech; Model 58; Baron; Nacelle Structural Damage; ATA 5742

During a scheduled inspection, a technician discovered structural damage in the right engine nacelle.

The upper "U" channel on the engine firewall was severely cracked. It appeared the crack developed where the engine mount bolt passes through the firewall.

The submitter speculated normal engine vibration and the high number of operating hours caused this damage. He suggested the manufacturer design a "beef-up" modification for installation in this area. He stated it is common to find this type of damage on like aircraft.

Part total time-10,163 hours

Beech; Model 58; Baron; Defective Fuel Indicator; ATA 2841

While inspecting the aircraft, a technician discovered the left wing fuel quantity sight gauge was defective.

The technician obtained a new fuel sight gauge (Rapid P/N 002-381002-5) and proceeded to install the new gauge. During the installation, he discovered the float arm was indexed 180 degrees from the original gauge. Due to the index anomaly, the float arm contacted the curve of the wing leading edge and obstructed the float arm travel. The gauge would not read below 45 gallons in this condition. He obtained another new sight gauge; however, it too had an index anomaly.

The submitter suspected the index anomaly occurred during the manufacturing process. He returned the defective parts to the manufacturer with a report detailing the problem. All technicians should be aware of this problem when replacing a fuel sight gauge.

Part total time-0 hours.

Beech; Model F90; King Air; Engine Fuel Leak; ATA 7310

During a postflight inspection, a technician noticed fuel leaking from the right engine cowling.

The technician opened the cowling and discovered a fuel line was cracked. The fuel return line (P/N 3011849) runs from a "tee" fitting to the engine fuel control unit (FCU). The crack was adjacent to a "B" nut on the FCU end of the line.

The submitter stated it appeared the line was bent or twisted when a "B" nut of another line attached to the "tee" fitting was tightened without holding the "tee" fitting. He found similar damage on the left engine. He recommended checking the fuel line closely during scheduled inspections. He stressed the importance of using the proper wrench to hold the fitting when tightening any aircraft plumbing.

Part total time-6,208 hours.

Beech; Model 100; King Air; Smoke in the Cockpit; ATA 3310

Immediately after takeoff, the pilot detected smoke in the cockpit. The smoke appeared to be coming from the pedestal trim switch subpanel. The smoke emission ceased when the pedestal light circuit breaker opened. The smoke emission was not severe, and he made a safe landing.

A maintenance technician investigated the cause of this incident and found a light strip lamp on the pedestal electrical panel (P/N 97-524048) had shorted to ground.

The submitter cautioned all technicians to check the light strip closely during scheduled inspections to ensure it is in a condition for safe operation.

Part total time-8,987 hours.

Beech; Model 100; King Air; Landing Gear Failure; ATA 3213

During a landing, the right main landing gear broke and separated from the aircraft.

A technician discovered the "torque knee" (P/N 50-810323) failed at the upper pivot pin. There was a section missing from the inboard half of the torque knee. The outboard section was broken but still partially attached. It appeared the failure was the result of cracks that went through the grease fitting holes at the pivot point.

The submitter speculated the "torque knee" was subjected to excessive side loads during previous landings.

Part total time not reported.

Beech; Model 300; King Air; Fuel Pressure Anomaly; ATA 2844

Immediately after takeoff, the pilot noticed the "low pressure" fuel light was illuminated. He returned to the departure airport and made a safe landing.

During an operational test, the technician determined the actual fuel pressure output was within limits. Investigating further, he discovered the fuel pressure switch (P/N 100-389018-23) was defective.

Part total time-7,336 hours.

CESSNA

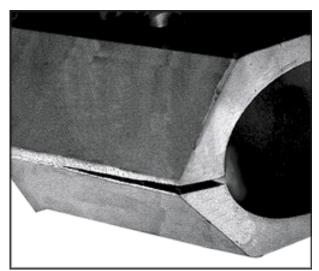
Cessna; Model 172RG; Cutlass; Main Landing Gear Fitting Failure; ATA 3213

During the first scheduled inspection after the owner purchased the aircraft, the right main landing gear attachment fitting was found cracked.

The fitting (P/N 2241100-1) attaches the main landing gear spring to the axle and wheel assembly. The crack compromised the structure and security of the gear and could lead to separation of the axle and wheel assembly. (Refer to the illustration.)

Before the new owner purchased this aircraft, it had been operated in a salt-air environment over a long period of time. He gave no other reason for this defect.

Part total time-8,288 hours.



Cessna; Model 172R; Skyhawk; Wing Skin Cracks; ATA 5730

While conducting other maintenance, a technician noticed several cracks on the trailing edge of the left wing skin.

The cracks were located on the inboard end of the wing adjacent to four rivets used to join the trailing edge stiffener to the upper and lower skins. The cracks ranged from .5 to 1 inch in length, and one crack penetrated a rivet hole. There was no evidence the trailing edge stiffener had been contacting the chafe buttons of the wing flap which indicated the cracks may be the result of excessive preload or stress imposed during installation. An additional crack, approximately 1 inch long, was found in the same area adjacent to a rivet joining the extreme inboard rib to the upper skin. It appeared this crack was caused by contact with the excessively long shank of the aft wing root fairing screw.

The technician repaired this damage by removing the wing and installing a flush patch with a doubler.

Part total time not reported.

Cessna; Model 177RG; Cardinal; Landing Gear Defect; ATA 3230

After a safe landing, the pilot stated the landing gear pump motor continued to run a long time after the gear selector was placed in the "down" position. Also, the "gear-down" indicator light did not illuminate. A ground observer informed the pilot the gear appeared to be in the "down-and-locked" position prior to the landing.

A technician discovered the right main "gear-down" lock switch was not being actuated because the "down-lock" support bracket was broken. The broken support bracket rotated in the housing and would not allow the gear to lock down. The support bracket lower pin was sheared, and the support bracket displayed signs of excessive heat at the point where it was welded.

Part total time not reported.

Cessna; Model R182; Skylane; Defective Fuel Pressure Gauge; ATA 2844

A technician was investigating a fuel pressure problem and discovered the pressure indicator was defective.

The technician removed the gauge and sent it to an instrument repair facility. The repair facility returned a replacement fuel pressure gauge (U.M.A. P/N 3-311-2). The new gauge came with a nipple fitting (P/N AN816-2D) installed in the inlet pressure port. When he installed the gauge, it produced extremely low pressure readings. He removed the nipple fitting and discovered that when it had been installed, copious amounts of "Teflon thread tape" had been incorrectly applied to the fitting threads. The excess tape covered approximately 75 percent of the fitting outlet to the gauge. Also, small pieces of the tape had broken off and entered the gauge.

The submitter suggested that technicians ensure that "Teflon thread tape" is not applied to the first thread in the threaded portion of the joint.

Part total time not applicable.

Cessna; Model 182S; Skylane; Fuel System Defect; ATA 2821

This aircraft and another like aircraft were purchased "new" by the Washington State Government.

While completing the first 100-hour inspection, a technician discovered a serious safety problem with the fuel system.

The fuel strainer standpipe (P/N 0756036-1) was manufactured with between one and two threads machined into the standpipe for engagement and retention of the fuel settling bowl assembly. When the technician reinstalled the fuel bowl, the threads on the standpipe failed and released the bowl assembly.

The submitter stated the standpipe threads were inadequate to support the weight of the fuel bowl, especially when subjected to operational vibrations. An Airworthiness Inspector from the local FAA Flight Standards District Office (FSDO) inspected the fuel strainer assembly and concurred with the submitter's findings. After these finding were discussed with Cessna engineering, Cessna designed a new standpipe (P/N 0756036-4) with adequate threads for retaining the fuel bowl.

The fuel strainer assembly is located on the firewall above an engine exhaust pipe and creates a great potential for a fire, as well as possible engine failure due to fuel starvation.

The submitter recommended that all operators of like aircraft inspect and replace, as necessary, the fuel strainer assembly standpipe in accordance with the findings of this report.

Part total time-100 hours.

Cessna; Models 190 and 195; Defective Aileron Hinge Brackets; ATA 2710

During a scheduled inspection, a technician discovered the inboard aileron hinge bracket was broken.

The inboard aileron hinge brackets (P/N 0322709 and P/N 0322709-1) are constructed of magnesium, and magnesium is highly susceptible to the effects of corrosion. This aileron hinge bracket was cracked all the way across the bearing boss. The aileron was in danger of separation from the aircraft. (Refer to the illustration.)

The FAA Service Difficulty Program data base contains nine additional reports of similar defects. Also, several aircraft accidents have been attributed to aileron hinge bracket(s) failure.



Supplemental Type Certificate (STC) SA00871WI is available and offers a new aileron hinge bracket that is made of aluminum. The new parts included in the STC kit are purported to be stronger and more corrosion resistant than the original equipment hinge brackets. Even though the magnesium aileron hinge brackets may appear to be in good condition, their airworthiness cannot be determined until they are cleaned and the paint is removed.

Part total time not reported.

Cessna; Model T207A; Stationair; Main Landing Gear Tire Failure; ATA 3244

After a landing incident, the pilot stated the right main gear tire failed during landing. The aircraft departed the right side of the runway and sustained minor damage.

The technician discovered the tire (Goodyear 800X6) still had tread, the brake system functioned properly, and the wheel turned freely on the axle. However, there was a "flat spot" on the tire where the failure occurred. This indicates the wheel brake was applied when the tire contacted the runway.

It may seem obvious and a bit redundant, but the submitter recommended pilots keep there feet off the brakes until the aircraft is on the runway.

Part total time not reported.

Cessna; Model T210N; Centurion; Horizontal Stabilizer Bracket Discrepancy; ATA 5551

An air carrier operator provided this report after it was reviewed and verified by the local FAA Flight Standards District Office.

During a scheduled inspection, a technician discovered a horizontal stabilizer attachment bracket was severely cracked. He inspected another like aircraft and found a similar defect.

The left aft horizontal stabilizer attachment bracket (P/N 1232623-1) cracks rendered the structural security of the stabilizer questionable. In researching this discrepancy, the technician learned the manufacturer issued Service Information Letter (SIL) SE84-17 which deals with this subject. Also, SIL SE84-17 authorized the installation of an improved attachment bracket (P/N 1232624-1) and recommended inspections at 100-hour intervals.

The submitter recommended that all owners, operators, and maintenance technicians comply with SIL SE84-17 as soon as possible.

Part total time-2,882 hours.

Cessna; Model 210D; Centurion; Nose Landing Gear Failure; ATA 5280

During a landing approach, the pilot placed the landing gear selector in the "down" position with no corresponding action from the nose gear. All attempts to extend the nose gear failed, and he landed the aircraft without the aid of the nose gear.

While recovering the aircraft from the runway, a technician discovered the roller on the spring-loaded mechanical linkage for the nose gear doors had moved forward and locked itself under the nose gear fork. Also, he noticed that an extra link had been added to the door linkage. Since the extra link was attached with only one bolt, the roller lowered and contacted the nose gear fork early in the retraction cycle. He speculated the extra link caused the link and roller to move forward where they became locked, wedged, or jammed under the nose gear fork during the gear retraction cycle.

The text of the submitter's report indicated the nose gear doors had been modified in accordance with a Supplemental Type Certificate (STC). However, he did not identify the STC by number or description. He did call into question the "mental capacity" of the person who accomplished this modification!

Part total time not reported.

Cessna; Model 402C; Businessliner; Landing Gear Defect; ATA 3211

While completing a scheduled inspection, a technician discovered a crack on the right main landing gear.

The crack was located on the right main gear forward pivot support fitting (P/N 5122720-2). The technician checked the landing gear rigging and found it was within limits.

The submitter believes age and the high number of operating hours caused the crack. Also, it is possible that hard landings contributed to this failure.

The manufacturer issued a more structurally substantial main gear support fitting that is used on later model aircraft and can be retrofitted to older aircraft. Older aircraft and high-time aircraft require extra attention to maintain them in an airworthy condition.

Part total time-14,226 hours.

LAKE

Lake; Model LA-250; Turbo Seafury; Engine Oil System Defect; ATA 8550

This aircraft uses a Textron Lycoming Model TIO-540-AA1AD engine.

While complying with the manufacturer's service information, a technician discovered a defect in the oil pressure system.

Textron Lycoming Service Bulletin (SB) 518-C gives instructions for ensuring the airworthiness of the "Vernatherm" engine oil bypass valve (P/N 53E19600). Specifically, SB 518-C lists procedures to check the "Vernatherm" oil bypass valve nut for proper tightness. The oil bypass valve has been the subject of much publicity generated by failures in recent years.

In this case, the oil bypass valve nut was not only loose, it was missing. After a thorough search, the technician found the nut in the inboard end of the right side oil cooler hose. (This aircraft incorporates two oil coolers.)

Part total time-616 hours.

PILATUS

Pilatus; Model PC-12-45; Cockpit Fuel Odor; ATA 2822

After returning from a flight, the crew reported a strong odor of fuel in the cockpit.

The technician found a "puddle" of fuel in the engine cowling. He traced the fuel source to a fitting (adapter) installed in the low-pressure engine-driven fuel pump. It appeared fuel seeped from the junction of the fitting "hex" and the beginning of the threads. The fitting (P/N 528.20.09.109) is a modified stainless steel fitting (P/N AN-815-10). He removed the defective part and sent it to the manufacturer for evaluation.

The submitter could not determine if the fitting was cracked or possibly leaking past the threads. He cautioned all other operators of like aircraft to inspect the fuel pump fitting thoroughly on a regular schedule for any sign of fuel leakage.

Part total time-1,100 hours.

PIPER

Piper; Model PA 18-150; Super Cub; Engine Cowling Damage; ATA 7110

This aircraft was modified by installing a Cub Crafters 180 HP engine conversion kit. The conversion kit provides strength for the cowling from built-in metal supports located at various points around the cowling. The clearance at the front of the engine between the ring gear and the cowling nosepiece is very minimal. The least clearance is between an AN-4 bolt and nut installed on the ring gear at the appropriate "clock angle" and the cowling nosepiece.

When this installation was accomplished it was necessary to "field balance" the propeller using a Chadwick machine. During this process, the technician removed the cowling. After this process, he installed the cowling and attempted an engine run. When the engine started, movement of the engine due to torque caused the ring gear installation to contact the cowling nosepiece. The resulting damage to the cowling and engine was catastrophic.

The submitter stated, "There is not clearance for the bolt nut combination while the engine is running."

Part total time not applicable.

Piper; Model PA 28-161; Warrior; Main Landing Gear Defect; ATA 3213

While performing other maintenance, a technician discovered a crack in the left main landing gear strut.

A dye-penetrant inspection of the area confirmed the strut (P/N 65319-004) was cracked. The crack was located at the radius of the upper strut housing attachment ears.

The submitter reported finding two other like aircraft with very similar cracks. All of the submitter's fleet are used in a training environment and are subjected to "untold thousands" of takeoffs and landings. The FAA Service Difficulty Program data base contains nine additional reports on both PA 28-151 and PA 28-161 models.

Part total time-7.841 hours.

Piper; Model PA 28-180; Cherokee; Electrical System Alteration; ATA 2421

The owner brought his newly acquired aircraft to a repair facility and reported observing an electrical system overvoltage condition.

While investigating, a technician discovered the voltage regulator had been removed from the system. The original alternator installation requires a voltage regulator and an overvoltage relay. He speculated someone replaced the original alternator with one incorporating an internal voltage regulator and removed the voltage regulator and overvoltage relay. Subsequently, when the alternator was replaced with a new original alternator, which did not have the internal voltage regulator and overvoltage relay, the installer failed to reinstall these components.

The present owner stated the previous owner performed much of his own maintenance and suggested this mistake may have occurred at that time. He recommended that trained, qualified, and certificated maintenance personnel perform all maintenance.

Part total time not reported.

Piper; Model PA 28-201; Arrow; Defective Engine Induction System; ATA 7160

During a 100-hour inspection, the technician noticed the alternate air door hinge was bent.

Due to the condition of the engine induction air system adapter assembly (P/N 99047-000), unfiltered air was drawn into the engine intake system. The submitter did not give the cause of this damage.

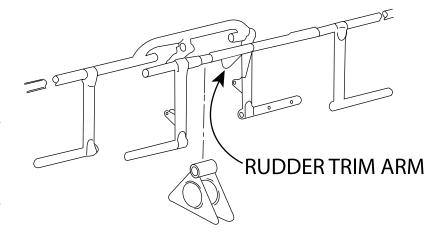
The submitter recommended that the manufacturer modify this installation by increasing the size of the hinge support and using more and larger rivets for attachment.

Part total time-99 hours.

Piper; Model PA 28-236; Dakota; Rudder Control System Failure; ATA 2720

During an annual inspection, a technician discovered the rudder trim arm was broken.

The rudder trim arm (P/N 66661-000) separated from the rudder bar and displayed excessive wear and scoring at the pivot bearing points. (Refer to the illustration.) The submitter attributed the scoring and wear on the bearing points to a lack of lubrication. He suspects the main cause of the damage was movement of the rudder trim control with the aircraft stationary on a hard surface.



The submitter suggested placing the rudder trim in a "neutral" position when taxiing the aircraft to allow free movement of the nose steering mechanism.

Part total time-3,524 hours.

Piper; Model PA 31-350; Chieftain; Landing Gear Retraction Problem; ATA 3230

After returning from a flight, the pilot stated he experienced a problem retracting the landing gear after takeoff. He immediately placed the gear in the "down" position and landed the aircraft safely.

A technician discovered the main landing gear lock rod fork (P/N 41789-00) bolt was broken (sheared) in the shank area. He suspected the bolt failed due to excessive wear and recommended more frequent periodic inspections.

Failure of the gear lock rod fork bolt at the wrong time could prevent the landing gear from locking in the "down" position.

Part total time not reported.

Piper; Model PA 34-200T; Seneca; Magneto Failure; ATA 7414

While performing an engine operational test, the technician discovered the right engine would not operate on the left magneto.

After securing the aircraft, the technician removed the magneto (Bendix P/N 10-79020-119) for further inspection. He opened the magneto case and discovered the distributor gear was cracked, and the impulse coupling was inoperative.

The submitter suggested that technicians pay close attention to "even minor RPM drops," and take appropriate action during magneto operational tests.

Part time since overhaul-1,161 hours.

Piper; Model PA 34-200T; Seneca; Electrical System Failure; ATA 2400

During an engine operational test, the alternators suddenly dropped offline.

The technician discovered the electrical system master switch, located on the cockpit left side panel, was defective. He removed and disassembled the master switch and found the plastic tab that couples the two halves of the switch together was broken. When the coupling tab failed, the alternators dropped offline.

The submitter speculated the plastic tab failed due to age and exposure to extreme temperature variations. He recommended the manufacturer consider using a better switch for this installation.

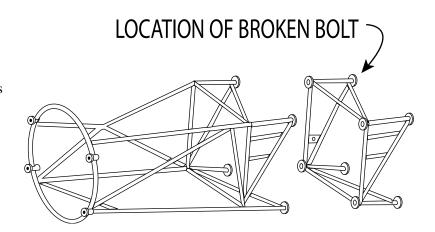
Part total time not reported.

Piper; Model PA 42-720; Cheyenne; Engine Mount Bolt Failure; ATA 7120

While conducting a scheduled inspection, the technician discovered an engine mount bolt was broken.

The top right engine mount bolt (P/N 553-344) was broken at the firewall. (Refer to the illustration.) The mount bolts are due a time change at 7,500 hours. They should be replaced during engine overhauls or whenever they become loose or defective. These bolts had not attained 7,500 hours of operation, and the submitter did not give the last engine overhaul time.

Considering the critical nature of these bolts, they should be given close attention during inspections and maintenance.



Part total time-4,455 hours.

Piper; Model PA 44-180; Seminole; Engine Induction System Structural Defects; ATA 7160

During a 100-hour inspection, a technician discovered that both engine carburetor heat boxes (P/N 86245-834) were severely cracked.

The right engine airbox was cracked at the "hot air" inlet where the tube is welded to the box. The crack extended approximately half way around the tube. The left engine airbox was cracked at the "cold air" inlet and extended almost all the way around the tube. It was in imminent danger of complete separation from the airbox.

The submitter speculated the damage was the result of "poor design" and "weak welds" at the "cold" and "hot" inlet tubes. He stated, "This is not the first occurrence of this problem on this aircraft or two others this company operates. The new airboxes seldom last more than a few hundred hours before cracks are detected."

The FAA Service Difficulty Program data base contains five additional reports of failure of this part number airbox, and one of those was installed on a Cessna Model 180 aircraft. The submitter suggested that the manufacturer consider design changes to make a more reliable and stronger airbox.

Part total times-324 hours right and 199 hours left.

UNIVAIR

Univair; Model 415-C; Ercoupe; Defective Nose Wheel Steering; ATA 3251

When the aircraft was repositioned after a flight, the nose gear steering system failed.

A technician discovered the steering rod (P/N 415-52035) was severely bent. Also, the nose gear steering joint ball (P/N 415-34074-2) that attaches the nose gear to the steering rod was broken.

The submitter stated this is a common occurrence that renders the nose steering system inoperative. A manufacturer-revised steering rod (P/N 415-52035A) is available. The revised steering rod is more structurally substantial.

Part total time-1,950 hours.

AGRICULTURAL AIRCRAFT

AIR TRACTOR

Air Tractor; Model AT-602; Unusual Vibration; ATA 6111

After returning from a flight, the pilot reported experiencing an unusual vibration. He stated the vibration seemed to come from forward of the firewall.

A technician investigated and found the inner and outer propeller blade retention clamp assembly (P/N 838-119) bolts were not at the specified torque value.

The submitter determined the loose bolts allowed the propeller blade to vibrate. He recommended checking the propeller blade clamp assembly bolts for proper torque setting during scheduled inspections and maintenance.

Part total time not reported.

HELICOPTERS

BELLSPECIAL NOTICE

Transport Canada issued Transport Canada, Airworthiness Notice B027, Edition 3, which deals with the disposal of helicopters by the Canadian Department of National Defense (DND). These helicopters include CH-136 (COH-58A), CH-118 (UH-1H), and CH-135 (CUH-1N). (*The following article is published as it was received.*)

The purpose of this notice is to inform the aviation public of the lack of a type certification for these rotorcraft and the possible distribution of aircraft components/parts that lack an acceptable release for installation on Canadian aircraft.

The FAA Suspected Unapproved Parts Office, AVR-20, requested that U.S. helicopter operators be made aware of the possibility that these helicopters or components may be made available for purchase. These helicopters and their components do not meet the requirements for U.S. certification or use in civil aviation.

A copy of the Transport Canada, Airworthiness Notice B027, Edition 3, is available on the Internet at: http://www.tc.gc.ca/civilaviation/maintenance/aarpc/ans/b027ed3e.doc

All operators are cautioned that these helicopters and their components are not eligible for U.S. certification, or installation on U.S.-registered aircraft.

BELL

Bell; Model 206B; Jet Ranger; Engine Compartment Corrosion; ATA 5313

While installing a structural repair on the engine deck, a technician discovered severe corrosion.

The corrosion was on and adjacent to the right longeron (P/N 206-031-814-49) running along the right side of the engine pan. It was evident that someone in the past had performed a dye-penetrant inspection in the area but did not clean the dye from the surface after the inspection.

The submitter believes the excessive amount of dye left on the structure caused corrosion on the longeron and surrounding area. Due to the severity of the corrosion damage, he replaced the longeron and gave the surrounding area a corrosion treatment.

Part total time 7,815 hours.

Bell; Model 407; Cross Tube Damage; ATA 3211

During a daily inspection, a technician discovered corrosion damage on the landing gear support cross tubes.

The forward cross tube (P/N 407-050-201-115) displayed pitting corrosion at a strap attachment point. The aft cross tube (P/N 407-050-202-101) had pitting corrosion approximately .25 inch deep that traveled

about half way around the tube diameter. In addition, the aft cross tube had heavy pitting corrosion under the wear pads. Due to the location of each area of corrosion, it was very difficult to detect.

The submitter believes this damage was caused when water and other contaminates were entrapped at the attachment points and wears pads. He recommended removing the cross-tube assembly for a close inspection at frequent periodic intervals.

Part total time 3.690 hours.

EUROCOPTER

Eurocopter; Model 105; Twinjet; Hanger Bearing Crack; ATA 6510

During a scheduled inspection, a technician discovered a tail rotor hanger support bracket was cracked.

The number 1 tail rotor hanger support bracket (P/N 105-21801-100.05) was severely cracked and in danger of complete failure. The submitter gave no cause for the crack; however, he recommended adding the inspection of the hanger support bracket to the 50-hour inspection requirements.

Part total time not reported.

AMATEUR, EXPERIMENTAL, AND SPORT AIRCRAFT

BEDE

Bede; Model BD-5B; Landing Gear Separation; ATA 3213

During a landing, the left main landing gear separated from the aircraft, and the aircraft veered off the runway.

While investigating the accident, an inspector determined the left main gear separated when it contacted the runway. The gear leg failed at the aluminum casting (P/N LG93) that attaches to the wheel assembly. (Refer to the illustration.) Markings on the gear leg casting indicated it was manufactured in 1985. There was no evidence that the part was previously damaged or cracked.

Part total time not reported.



NORTH AMERICAN

North American; Model P-51D; Mustang; Defective Fuel Hose; ATA 2820

While installing a new fuel selector valve, the technician also replaced the associated fuel hoses. During the installation, he discovered the new fuel hose was defective.

The .75-inch diameter hose (P/N MIL-H-6000B) was marked and cut in a symmetrical pattern along the length. The marked/cut places on the hose alternated down the hose length and penetrated the outer layer of the hose.

The submitter stated it appeared the damage was caused during the manufacturing process. He cautioned everyone concerned to conduct a thorough receiving inspection prior to installing parts.

Part total time not applicable.

VIPERAIRCRAFT

Viper Jet; Landing Gear Failure; ATA 3230

The pilot stated the right landing gear collapsed while turning off of the active runway.

An FAA inspector investigated the incident and determined the actuator rod-end (Aurora P/N MM-6) failed. The circumstances of the incident and the available evidence indicated the rod-end failed due to an excessive side load. At the time of the incident, the wind was gusting to 45 knots across the runway.

The submitter suggested that a more structurally substantial rod-end would prevent this type of failure. The aircraft kit manufacturer was contacted and agreed to supply a "heavier" landing gear rod-end with future kits. It would be wise for all current owners to contact the kit manufacturer for retrofit parts.

Part total time-150 hours.

POWERPLANTS AND PROPELLERS

PRATT & WHITNEY

Pratt & Whitney; Model R985; Poor Engine Performance; ATA 8530

This engine was installed in a Weatherly Model 620-B aircraft.

The pilot reported that during a flight, the engine began backfiring and power deteriorated resulting in an off-airport landing.

The technician discovered the number 1 cylinder caused this problem. After removing the cylinder, he found both intake valve springs (P/N's 28160 and 28161) were broken. Evidence indicated the springs failed due to corrosion (rust) pits adjacent to the area of failure.

The submitter recommended inspecting the entire cylinder assembly, especially the valve springs, for signs of corrosion on a frequent and regular basis.

Part total time-6,170 hours.

ACCESSORIES

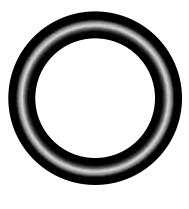
DEFECTIVE "O" RING SEALS

The FAA issued a Safety Recommendation concerning a defective batch or lot of "O" ring seals. Mr. William D. Shinn, a General Aviation Airworthiness Inspector with the FAA Flight Standards District Office located in Renton, Washington, initiated the Safety Recommendation after his investigation of the defective "O" rings. (This article is published as it was received.)

A repair station resealed the fuel selector valve (P/N 0311070-1) on a Cessna, Model 180.

The owner picked up the aircraft and while taxiing for takeoff the engine failed. All attempts to restart the engine were futile and maintenance personnel brought the aircraft back to the hangar and investigated the problem. They found the engine suffered from fuel starvation and, investigating further, found fuel was obstructed at the fuel selector valve. The selector valve was removed and disassembled revealing the "O" ring seals were swollen or enlarged twice their original size. (Refer to the illustration.)





NORMAL

FUEL SOAKED

The marking on the "O" ring packaging is as follows:

P/N: MS29513-112

Manufacturer: Valtec (Parker)

Lot Number: 60002401 Package Date: 06/01 Cure Date: 1Q01 Shelf Life: 60 Qtrs

A fuel soak test was conducted including "O" rings from Lot Number 60002401 and a different Lot. All of the "O" rings from Lot 60002401 enlarged when exposed to fuel (100LL Avgas) for only a short time. "O" rings from the different Lot did not deform under the same test conditions.

The "O" ring seal manufacturer was contacted and investigated these findings. They determined that Lot Number 60002401 was made from Ethylene Propylene material instead of Nitrile due to a mistake by their material supplier. The Ethylene Propylene material was confined to Lot Number 60002401 and the manufacturer stated this material was unsuited for aircraft fuel system applications.

In the Safety Recommendation, Mr. Shinn recommended "the manufacturer, Parker, and the distributor Valtec, to immediately quarantine any material in the previously mentioned lot number and recall any O-rings from their stock. This action should continue to follow the 'chain' all the way to the end user."

AIR NOTES

STRUCTURAL DAMAGE OF OLDER METAL AIRCRAFT OR ATTACK OF THE CORROSION VILLAIN

Recently, we received a report of severe structural corrosion on a North American, Model AT-6, Texan. Although this report was not unusual, it is a reminder that corrosion is an ever-present villain, which consumes metal products.

Many aircraft have areas where access is either limited or requires extensive disassembly. It seems the corrosion villain lurks about in the inaccessible bowels of aircraft more than the places where it is easily seen (and dealt with). It could be this is because very little, if any, attention is given to these areas for long periods of time.

The corrosion villain prospers on even small amounts of moisture, soap residue, spilled drinks, bird or animal droppings, sweat, chemicals, and other contaminates that find their way into the dark recesses of the aircraft. The corrosion villain is a fact of nature that we have only learned to slow down. Corrosion is an unstoppable process of nature that dictates materials revert to the natural state of the raw material, from which they are made. (THIS IS MY LAW, I MADE IT UP, AND IT IS MINE!)

The corrosion villain can even mount an internal attack by forming from inside a piece of metal. This usually occurs when a "flaw" or inclusion of foreign material is captured inside the metal when it is manufactured and forms intergranular corrosion. Intergranular corrosion usually begins by traveling along the grain lines of the metal causing them to swell and separate resulting in "blistering" and eruption of the surface. The progress of the corrosion villain's mission is affected by the environmental conditions the metal is exposed to (e.g., temperature, humidity, chemical content of the atmosphere, pressure, and stress). Some of these factors we can control, some we can control partially, and others we cannot control.

We have come a long way in slowing the progress of the corrosion villain in recent years, and even more advancement is possible in the future. Our mission (and we better be ready to accept it) is to be ever vigilant and relentless in the quest to find the corrosion villain, treat him to things he does not like,

or give up the fight and replace the aircraft part. In all cases, we must maintain the structural integrity of the entire aircraft. Look for corrosion evidence, treat the metal if possible, and replace the part when structurally necessary, but remember that corrosion will always be with us.

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In the past, we furnished the GPO subscription form in this publication. The older issues which contain the subscription form, may not have current pricing information. Since GPO controls price increases, contact GPO for current subscription information.

ELECTRONIC VERSION OF MALFUNCTION OR DEFECT REPORT

One of the recent improvements to the AFS-600 Internet web site is the inclusion of FAA Form 8010-4, Malfunction or Defect Report. This web site is still under construction and further changes will be made; however, the site is now active, usable, and contains a great deal of information.

Various electronic versions of this form have been used in the past; however, this new electronic version is more user friendly and replaces all other versions. You can complete the form online and submit the information electronically. The form is used for all aircraft except certificated air carriers who are provided a different electronic form. The Internet address is:

http://av-info.faa.gov/isdr/

When the page opens, select "M or D Submission Form" and, when complete, use the "Add Service Difficulty Report" button at the top left to send the form. Many of you have inquired about this service. It is now available, and we encourage everyone to use this format when submitting aviation, service-related information.

SERVICE DIFFICULTY REPORTING PROGRAM

The objective of the Service Difficulty Reporting (SDR) Program is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products fleet wide.

The SDR program is an exchange of information and a method of communication between the FAA and the aviation community concerning inservice problems.

A report is filed whenever a system, component, or part of an aircraft, powerplant, propeller, or appliance fails to function in a normal or usual manner. In addition, if a system, component, or part of an aircraft, powerplant, propeller, or appliance has a flaw or imperfection which impairs, or which may impair its future function, it is considered defective and should be reported under the program.

These reports are known by a variety of names: Service Difficulty Reports (SDR), Malfunction and Defect Reports (M and D) and Maintenance Difficulty Reports (MDR).

The consolidation, collation and analysis of the data, and the rapid dissemination of trends, problems and alert information to the appropriate segments of the aviation community and FAA effectively and economically provides a method to ensure future aviation safety.

The FAA analyzes SDR data for safety implications and reviews the data to identify possible trends that may not be apparent regionally or to individual operators. As a result of this review, the FAA may disseminate safety information to a particular section of the aviation community. The FAA also may adopt new regulations or issue airworthiness directives (AD's) to address a specific problem.

The primary source of SDR's are certificate holders operating under Parts 121, 125, 135, 145 of the Federal Aviation Regulations, and the general aviation community which voluntarily submit records. FAA Aviation Safety Inspectors may also report service difficulty information when they conduct routine aircraft and maintenance surveillance as well as accident and incident investigations.

The SDR database contains records dating back to 1974. Reports may be submitted on the Internet through an active data entry form or on hard copy. The electronic data entry form is in the AFS-600 Aviation Information web site under the heading SDR Main Menu. The URL is: http://av-info.faa.gov

A public search/query tool is also available on this same web site. This tool has provisions for printing reports or downloading data.

At the current time we are receiving approximately 45,000 records per year.

Point of contact is:

Tom Marcotte Service Difficulty Program Manager Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125

Telephone: (405) 954-6500

9-AMC-SDR-ProgMgr@mmacmail.jccbi.gov

ADDRESS CHANGES

In the past, the Designee Standardization Branch (AFS-640) maintained the mailing list for this publication. Now, the Government Printing Office (GPO) sells this publication and maintains the mailing list; therefore, please send your address change to: U.S. Government Printing Office, **ATTN: SSOM, ALERT-2G**, 710 N. Capital Street N. W., Washington, DC 20402

You may also send your address change to GPO via FAX at: (202) 512-2168. If you FAX your address change, please address it to the attention of: **SSOM, ALERT-2G**. Whether you mail or FAX your address change, please include a copy of your old address label, and write your new address clearly.

IF YOU WANT TO CONTACT US

We welcome your comments, suggestions, and questions. You may use any of the following means of communication to submit reports concerning aviation-related occurrences.

Editor: Phil Lomax (405) 954-6487

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You can access current and back issues of this publication from the internet at: http://afs600.faa.gov

When the page opens, select "AFS-640" and then "Alerts" from the drop-down menu. The monthly issues of the Alerts are available back to July 1996, with the most recent edition appearing first.

AVIATION SERVICE DIFFICULTY REPORTS

The following are abbreviated reports submitted between April 24, 2002, and May 24, 2002, which have been entered into the FAA Service Difficulty Reporting (SDR) System data base. This is not an all inclusive listing of Service Difficulty Reports. For more information, contact the FAA, Regulatory Support Division, Aviation Data Systems Branch, AFS-620, located in Oklahoma City, Oklahoma. The mailing address is:

FAA

Aviation Data Systems Branch, AFS-620 PO Box 25082 Oklahoma City, OK 73125

These reports contain raw data that has not been edited. If you require further detail please contact AFS-620 at the address above.

FEDERAL AVIATION ADMINISTRATION

Service Difficulty Report Data

Sorted by Aircraft Make and Model then Engine Make and Model. This Report Derives from Unverified Information Submitted By the Aviation Community without FAA review for Accuracy.

ACFTMAKE ACFTMODEL	ENG MAKE ENG MODEL	COMPMAKE COMPMODEL	PART NAME PART NUMBER	PART CONDITION PART LOCATION	DIFF-DATE OPER CTRL NO.	TTIME TSO
REMARKS	ENGMODEL	COMI MODEL	TAKT NUMBER	TAKI LOCATION	OI ER CIRENO.	150
	ALLSN		GOVERNOR	MALFUNCTIONED	04/03/2002	12618
	250C20B		252466715H	ENGINE	ERAA078452	
		, , , , , , , , , , , , , , , , , , ,		BEARINGS FOUND ROUGH / RAT	TCHETY, DRIVESHAF	T SPLINES
WORN BEYOND		LEEVE SPLINES WORN	N, GOVERNOR WEIGHT		0.4/0.2/2002	11020
	ALLSN 250C20B		BEARING	ROUGH ENG GOVERNOR	04/03/2002 ERAA078455	11828
GOVERNOR HIT		H COLLECTIVE UP. DE	ROOPING AND OVERSE	PEEDING EARLY. FOUND CAN I		CCENTRIC
			ROUGH/RATCHETY.			
	GARRTT		IMPELLER	BROKEN	02/28/2002	
	TPE33111U		31071102	COMPRESSOR	CA020422008	
				INE. ENGINE WAS REMOVED. T	TEARDOWN REVEALE	D THAT
REWORKED IMI	LYC	ECE BROKEN OUT OF	BUSHING	FAILED	04/23/2002	250
	IO720*		SL738190	COUNTER WEIGHT	04/23/2002	250
COUNTER WEIG		N SL73810 HAVE FAILI		. IT APPEARS THAT THE MATE		
			BACK FOR EVALUATI			
	LYC		OIL FILTER	MISMANUFACTURE	04/02/2002	
	O360A4M		CP48110	ENGINE	2002FA0000540	
				THE CENTER ATTACH STUD WA		
TIGHT. THIS DE	PWA	E CAUSED LOSS OF E	FILTER	IBLY ENGINE FAILURE IF THE I UNAPPROVED	04/18/2002	ECTED.
	PT6T3B		TILTEK	ENGINE	CA020418003	
(CAN) 2 OIL FILT		D INSTALLED IN GEA	ARBOX. FILTERS ARE N	NOT GENUINE, NOT APPROVED		ELEASED
, ,				JMBER WHILE IT SHOULD IND		
				NAL DESIGN SINCE IT IS BUILD	FROM 2 ALUMINUM I	PIECES THAT
ARE SPOT WELI		PWC HAS PLACED TH	IS PART IN QUARANTI			
	TMECA		BOLT	BROKEN	04/29/2002	1931
AETED A MAINT	ARRIEL1D1	VING THE CLEANING	9824053225 OF THE NR 4 READING	ENGINE F, THE MAINT TECH FOUND THI	2002FA0000557	1931 GINE
				, THE MAINT TECH FOUND THI , THE MECHANIC NOTICED TH		
				IE ATTACHMENT FLANGE BOL		
BROKEN IN THE	E AREA OF THE LE	EAK. THE BOLT HAD E	BROKEN FAR ENOUGH	INTO THE CASE THAT THE MC	DULES WHERE REMO	VED AND
SENT TO TURBO	OMECA TO ELIMIN	NATE THE POSSIBILIT	Y OF FURTHER DAMAG	GE. THE ENGINE WAS REASSEN	MBLED IAW MM CHAP	TER 72 AND
		OWED, QUALITY CON		AND VERIFIED ALL PROCEDU		
AIRTRC	PWA PT6A34		BLADE	FAILED	05/01/2002	29
AT502		OST ALL DOWED EN	T102401100A	COMPRESSOR DISK CERTIFIED REPAIR STATION.	2002FA0000568	NAI VCIC IC
				13411, S/N 2P609, HAD SEVERA		
				MACROSCOPIC INSPECTION	,	,
DISPLAYED CO	URSE GRANULAR	FEATURES. THE BLA	DE P/N (T-102401-100A) BEING PREFIXED WITH A "T"	DENOTES THE BLAD	ES TO BE
	UFACTURED UNIT	ΓS.THESE BLADES WE	ERE CHANGED AT LAS	T HSI ON 6 FEBRUARY 2002 AN	D HAD ONLY 28.7 HO	URS TO THIS
FAILURE.						
AIRTRC AT802	PWA PT6A6		FUEL FILTER 500991	LEAKING FIREWALL	04/21/2002	
		CINE ECH EHEL EOUN		EWALL MOUNTED FUEL FILTE	CA020430001	EP O
				RE INSTALLED, FILTER ASSY TO		
				ER ONE WEEK PERIOD. DURIN		
SMELL IN COCK	PIT. A/C RETURN	ED TO BASE. FUEL PR	RESSURE CHECK ACCO	MPLISHED AND FUEL FOUND	LEAKING FROM CAN	STER TO
		CANISTER SECURING		MOVED AND TORQUE CHECK		
AMD EAL CONTO	GARRTT		LINE	CHAFED	04/12/2002	
FALCON10	TFE731*	ALL FLUID ON FLICH	F10A751108	HYD SYSTEM AULIC LINE CHAFFED THROU	2002FA0000580	ED AGAINST
			SYSTEM COMPONENT		OH, LINE HAD CHAIT	ED AGAINS I
AMTR	(11/11/0/1/3112/)1	IVIII I BIII. INGI ECI	BELT	BROKEN	04/08/2002	208
ROTORWAYEXE	EC		E181150	TAIL ROTOR	2002FA0000628	
				L. BELT LIKELY FAILED DUE TO	O IMPROPER BELT RO	UTING
		E IDLER PULLEY TO N				
AVIAT	LYC		BAFFLE	MISSING	04/19/2002	588
A1B	O360A1D	NICT ACCEMBLY INT	EDMAI DAEELEC MICC	EXHAUST DUCT ING, AND NR 4 CYLINDER LOW	2002FA0000578	NG
BBAVIA	ITLEN EXHAUST I	JUCI ASSEMBLI IIVI	SPAR	CRACKED	04/30/2002	4379
7AC			S147	LT WING	2002FA0000649	.577
	R SPAR COMPRES	SSION CRACK AT STR		TWEEN DOUBLER ON UPPER S		
BBAVIA	CONT		SPAR	CRACKED	04/22/2002	
7EC	C90*	an . arr . a		RIGHT WING	2002FA0000637	
				ER ATTACH FITTING TO FUSELA		
		LLY. SEVERAL RIB N. WINGS REQUIRED.	AILS LOUSE ON BOTH	WINGS. AIRCRAFT HANGAREI	J-CAUSE UNKNOWN,	(HOUKS UN
.11135 5000 10	oooo, REI MIK OI					

BBAVIA 7EC	CONT C9012F		SPAR 5146	CRACKED RT WING	04/24/2002 474	5500 500
C/W AD 00-25-021	R1 FOUND CRAC		SPAR JUST UNDER AT	TACH FITTING TO FUSELAGE	ON R/H WING TRAVEL	ING SEVERAL
20)VERY LOW U	JSEAGE- CAUSE	PARALLEL- SEVERA UNKOWN- REPAIR O	F WINGS REQUIRED.	N BOTH WINGS- AIRCRAFT F		
BBAVIA	LYC		SPAR	CRACKED	03/13/2002	1725
GC	O290*	DECOVED THIS INS	DECTION SHOWED NO	RT WING CRACKS. WING WAS RECOV	2002FA0000528	OP TO
				ACK FELL ONTO THE WING.		
				ACK WAS UNDER THE WING		
UST BELOW TH	E FIRST. BOTH C	RACKS IN LINE WITH	THE BOLT HOLES AS	SHOW IN SL406, THE SPAR W	AS CRACKED BADLY E	NOUGH THAT
.006 FEELER G	AUGE COULD BE	E PUSHED IN ABOUT	1 INCH. THE SPAR MU	ST BE REPLACED.		
BAVIA	LYC		AXLE	SHEARED	03/11/2002	
GCBC	O320A2B	N ON ICE THE AIDCD	22041	MLG	CA020408006	CDAET
,				OME SMALL SNOWMOBILE T D BY THE SAFETY WIRE, FLA		
			,	E FORWARD SAFETY WIRE FA		
				AR FUSELAGE AND DAMAGI		
		· · · · · · · · · · · · · · · · · · ·		SULTING GROUND LOOP.		
BBAVIA	LYC		FUEL TANK	CRACKED	05/08/2002	390
KCAB	AEIO360H1A		715371	FUSELAGE	OG5R092N	
				OF THE LEFT WING BENEAT		
				FOUND TO BE SEPERATED A ORY REVEALED THAT THIS I		
			· ·	ED 396.0, 647.6 AND 390.0 CON		
				FLE IS WELDED IN THE TANK		ECENTER
	AP FOR THE TAN	IK CAUSING A PRELO		TON. DURING USE FOR ACRO CRACKED		
BEECH 900D			KEELBEAM 11498002412	FUSELAGE	03/29/2002 2002FA0000549	
	FOUND ON RIGH	T HAND FORWARD (ELL KEEL AT UPPER GEAR F		E (SUPPORT
	OF KEEL CASTIN					(2011 0111
BEECH	PWA	BEECH	BEARING	CORRODED	02/25/2002	13115
900D	PT6A67D	1185210588	MS276404	BALL BEARING	CA020225001	13115
,				WAS CAUSED DUE TO R/H A	AILERON TERMINAL BE	LLCRANK
		EARING WAS FOUND		O AND OUT OF SHAPE.	02/27/2002	
BEECH 900D	PWA PT6A67D		ACTUATOR 11238002223	INOPERATIVE MLG	02/27/2002 CA020227005	
		OCH CREW EXTENDE		IT DID NOT GET A NOSE GRE		O WITHOUT
,				BUT STILL WITHOUT GREEN		
WAS ASSERTAIN	NED DOWN DUE	TO THE ABSCENCE O	F A RED HANDLE LIG	HT WHICH FUNCTIONED NO	RMALLY. THE GREEN A	ND RED
				ANCE OF ACTUAL GEAR POS		
				ALL LIGHTS OPERATING PRO		
ACTUATOR WAS BEECH	S REPLACED FOR PWA	RAYTHN	EASONS AND THE AIR RELAY	RCRAFT RELEASED AFTER NO CORRODED	UMEROUS GEAR CYCLE 03/21/2002	2S. 13729
1900D	PT6A67D	B1900D	77GB408R4A18	CONTACT	CA020419002	13729
		K PILOT PULLED TH		O CHECK THE SHUTTOFF VA		
BACK THE HANI	DLE THE VALVE	STAYED CLOSED. SE	VERAL TRIES WERE N	ECESSARY TO OPEN THE VA	LVE. DURING TROUBLE	SHOOTING,
				THAT THE RELAY CONTACT.	AND THE WIRE TERMIN	IAL WAS
		AS FOUND BARELY				
RELAY, WIRE AI BEECH		AS REPLACED. (REL	,	DAMAGED	02/12/2002	11200
BEECH 200BEECH	PWA PT6A41		SPACER 3018389	COMPRESSOR	03/12/2002 CA020417004	11300
		ECTION OF COMPRES		RST STAGE DISK MADE SCRA		IED WHEN
				BBED WITH LEADING EDGE		
FROM INERTIAL	FORCE. ENGINE	REMOVED FOR REPA	AIR.			
BEECH	PWA		BOLT	LOOSE	03/13/2002	
00BEECH	PT6A42		VARIOUS	RUDDER CONTROL	AUS20020325	3775
AUS) FORWARL BEECH		PULL TUBE FORWAR	RD BELLCRANK BOLT	S LOOSE. FAILED	02/29/2002	
зеесн '6	LYC O360A1G6D		CURRENT	DC POWER	03/28/2002 AUS20020303	
		PLETE LOSS OF ELEC	TRICAL POWER WHE	N THE UNDERCARRIAGE WA		AKE-OFF
				THER INVESTIGATION FOUN		
DIODE HAD AN I	UNSERVICEABLE	EINSULATOR THAT W	AS SHORTING ALTER	NATOR OUTPUTS TO EARTH.		
BEECH	PWA		FRAME	CRACKED	03/25/2002	15724
A100	PT6A28		5042002857	FUSELAGE	CA020326012	15724
				D ON THE AIRCRAFT FUSELA		
	FRAME AT FLIGH R'S RECOMMENI		AS CRACKED. THE FU	SELAGE FRAME IS BEING RE	PLACED IN ACCORDAN	CE WITH THE
BEECH	PWA	BEECH	BUSHING	LOOSE	03/25/2002	3246
3200	PT6A60A	BLLCII	DOSIMAG	ACTUATOR	2002FA0000533	3240
		ION INSPECTION THE	RIGHT ELEVATOR W	AS REMOVED. UPON REMOV		IE END OF TH
ACTUATOR WAS	FOUND TO BE L	OOSE ON THE SHAFT	. WITH THIS BUSHING	NOT INSTALLED THE POSSIB	BILITY OF TAB FLUTTER	OR NOT
				TALL A ROLL PIN TO HOLD T		
	OULD BE DOEN C	ON THESE ACTUATOR	S TO MAKE SURE THI	S IS IN PLACE AS THIS IS A H	ARD AREA TO SEE ON A	A DAILY
NSPECTION.	DWA		DELL OF ANY	MICMANITIEACONTOR	04/10/2002	
BEECH	PWA PT6A21		BELLCRANK	MISMANUFACTURE	04/10/2002	
C90A CAN) DURING II	PT6A21	T RECHIRED DEMOV	ASABOVE	AILERON HAT THE HOLE IN THE OUTP	CA020410002	HROD ATTAC
				ICH. THIS ALLOWED LOST M		
				ANUFACTURE. MANUFACTU		
			PROBLEM HAD BEEN			

BEECH			SNAP RING	FAILED	04/16/2002	
D50	DADVED IN HANC	CAD NO MAINTENIANO	E DEING DEDEODMED	MLG STRUT . UPON 1ST INVESTIGATION LT	2002FA0000570	D CTDIT
		. ,		. UPON 1ST INVESTIGATION LT RING HAD COME LOOSE AND C		
			IN. NO OTHER DAMA	GE NOTED ON AIRCRAFT. UPO	N FURTHER INSPECT	ION NO SIGN
OF COMPONENT BEECH	FAILURE TO LEF PW A	T MAIN	SPAR	CDACKED	04/11/2002	
E90	PWA PT6A60A		SPAK	CRACKED ELEVATOR	2002FA0000645	
		CES. FORWARD SPAR,	INBOARD END CRACI		20021710000013	
BELL	LYC		FITTING	CRACKED	04/11/2002	
205A1	T5313B	COEDE LA CEMENTA I	2090313441	M/R TRANSMISSION	CA020501002	
, ,	OUND AT BOTTON RACKS IN THIS AR	,	JUSING) WHERE 51H	MOUNT IS HOUSED, 3/4 INCH LO	JNG. MAINTENANCE	MANUAL
BELL	ALLSN	(L) 1.	NOZZLE	CRACKED	11/19/2001	
206B	250C20		6878496	TURBINE SECTION	CA020405023	
		ND CRACKED BEYOND			11/11/2001	
BELL 206B	ALLSN 250C20B	BELL 206B	BULKHEAD 206030446001F	CRACKED T/R GEARBOX BAY	11/14/2001 CA020405025	
		SPECTION IN AFT LT TA			CA020403023	
BELL	ALLSN	MICHDYNAMICS	CASE	RUPTURED	03/05/2002	
206B	250C20B	2223666213		FUEL FILTER	CA020312007	
				OOWN AND FOUND FUEL LEAK VALVE ASSY WAS INSTALLED		
				ISION OF THE FUEL IN THE SYS		
				KED OUTSIDE, COVERS ON TH		
				O AS PER THE TYPE REQIRED F	OR THE "S/N" OF AIR	CRAFT. THE
FUEL VALVE ASS BELL	SY INSTALLED H. ALLSN	AS A PRESSURE RELIEI BENDIX	TOROUE TUBE	THE OLD ONE DID NOT. CRACKED	04/10/2002	
206B	250C20B	23065121	206062708007	SHEAR AREA	CA020430008	
				SHEAR AREA. THE CAUSE OF T		ETERMINED
			WAS EXTREMELY HA	RD TO MOVE. NO COMPLAINTS	FROM PILOT TO INDI	CATE A N2
PROBLEM. BOTH BELL	I PARTS REPLACI	ED.	CROSSTUBE	EALLED	04/01/2002	2096
212			AB205050400063	FAILED MLG	04/01/2002 HEEA078542	2090
	GER LOADING (E	ENGINES SECURED) AF		ONE INCH OUTBOARD OF RIG		ENT POINT
				POSITION). AIRCRAFT SETTLEI		
			Y AND TO THE RIGHT	HAND SKID TUBE IN THE ARE	A OF THE FWD SADDI	LE.
BELL BELL	CROSSTUBE AND PWA	KI SKID TUBE.	VENT	CLOGGED	03/08/2002	
212	PT6T3		209062608001	FUEL PRESSURE	CA020408001	
				ND VENT FOUND ALMOST CLC		BSTANCE.
BELL 212	PWA PT6T3B	BELL 212040263107	BEARING 214040118001	FAILED CAGE	03/27/2002 CA020430011	
				NFIRMED BY VISUAL INDICAT		SSURE
				ATION WENT TO ZERO AFTER A		
				ON/DRIVETRAIN SEIZED FOLLO		
		TEARDOWN INSPECTIO Y.2 LOWER PLANETAR		26-APR-02 AT HELIPRO FACILI	ITY IN LANGLEY BC I	DENTIFIED
BELL BELL	LL ASST AND Q1	1.2 LOWER FLANETAR	AMPLIFIER	INTERMITTENT	04/08/2002	
214ST			214074305105	AUTOFLIGHT	HEEA078592	
				NE HOUR 30 MINUTES. CAN RE-	ENGAGE SYSTEM AN	D WILL
	JT ANOTHER HOU	JR BEFORE KICKING O	FF LINE. CONNECTOR	LOOSE	04/08/2002	
BELL 407			CONNECTOR	BUSSBAR	HEEA078593	
	T PILOT SMELLE	ED SOMETHING BURNI	NG. SMELL FROM BAC	GGAGE COMPARTMENT. MAINT		OSE
				RRED AT STARTER RELAY TER	RMINAL A2 AND AT LI	NE
	Y TERMINALA2 A	LSO FOUND BURNED			04/04/2002	0055
BELL 412			BLADE 412015300109	DAMAGED MAIN ROTOR	ERAA078458	8855
	E TOP SKIN 1/3 DO	OWN LENGTH OF BLAD		ED AREA AS MARKED, EDGES		PPED UP.
	,			VOID WITH GLASS DAMAGE, IN		
				ER CRACKING AT TABS. WATE		CELLS.
BELL	I A-KAT INSPECT	ION OF SUSPECT AREA	A. ACTION TAKEN: RE BUSHING	PAIRED AS PER 8130-3 BLK #13 MISSING	. 04/04/2002	13544
412			Desimite	M/R HEAD	ERAA078462	13311
				2500 HR INSPECTION. BUSHING		
				LEANED, INSPECTED, COMPLIE		
	M/M, INSTALLED D IAW 412 CR&O.		VICEABLE LOWER CC	ONE SEAT, SPLINE PLATE, LOW	ER CONE, NEW DAMI	EK
BELL	B III II II CIRCO.		TRANSMISSION	MAKING METAL	04/04/2002	8093
412			412040002103	TAILROTOR	ERAA078465	
			•	ET, ROLLERS & RACES MAKING		
	,	PUT DRIVE QUILL. C/W SS.TESTED AND TOUCH		ON. REPLACED MAIN INPUT PI	NION AND ALL BKGS	. CLEANED
BELL	PWA		SLEEVE	WORN	03/20/2002	
412	PT6T3		10544E	FUEL LINE	AUS20020361	920
(AUS) THE FIRE SHEATER.	SLEEVE OF FUEL	HOSE (PN 10544E) WAS	FOUND CHAFFED AF	PPROX 0.005 IN (0.127MM) IN DE	EPTH THROUGH WAL	L OF FUEL
HEATEK.						

Julie 2002				C 43-10A
BELL PWA	BLOWER	WORN	04/04/2002 EBAA078463	11234
412 PT6T3B OIL COOLER BLOWER DUE 1500 HR C	209062502101 OVERHAUL WORN INBOARD BUS		ERAA078463 CED IMPELLER ACTION TA	KEN· C/W
PRELIMINARY INSPECTION. NO DEFE ALL PARTS. FOUND MECHANICAL DA LIGHT CORROSION ON REMAINING P CONDITION. INSTALLED 1EACH NEW	CTS NOTED. DISASSEMBLED OIL AMAGE ON BEARING BUSHING OI ARTS. C/W NDT INSP & FOUND CF BRG IN CASING ASS6Y, I EACH N	COOLER, CLEANED, STRIPPEL F CASING ASSY AND SENT TO RACK ON IMPELLAR, PARTS FO IEW BEARING ON SHAFT. PRIM	D PAINT & PRIMER & VISUA H&S TOOL FOR REPAIR. CL DUND TO BE IN SERVICEABI MED PARTS & REASSEMBLE	LLY INSPECT EANED UP LE D OIL
COOLER WITH ALL NEW HARDWARE CHAP 2.	E, NEW DECAL & NEW SHAFT O R	NG. O/H OIL COOLER IAW BHT	Г 412 CR&O9CHAP 79 & ВНТ	-ALL-SPM
BELL ALLSN	BEARING RAG	CE SPALLED	03/29/2002	727
TH57A 250C18 TURBINE WAS REMOVED DUE TO ME NEW INNER RACE COUPLING.	23071309 ETAL IN OIL. INSPECTION REVEAL	TURBINE SECTION LED SPALLING ON INNER RACE	HEEA078481 E COUPLING BEARING RAC	E. INSTALLED
BOLKMS ALLSN BO105A 250C20B	DIAPHRAGM	DEFORMED ENG GOVERNOR	04/03/2002 ERAA078453	10974
NR 1 STARTS HUNTING UP & DOWN A FLY WEIGHT BEARINGS FOUND ROU			GOVERNOR LEVER, CAM L	EVER AND
BOLKMS	HEAD	MALFUNCTIONED	04/04/2002	8715
BO105S	10531714	TAIL ROTOR	ERAA078456	ITH DI ADEC
EXCESSIVE RIGHT PEDAL REQUIRED SN 211 & 218 FOR TROUBLESHOOTING				
REINSTALLED BOLTS. STATIC BALAN	ICED. REPAIRED IAW BO105 REM	301, MM CH 33,34,102 & MARVE	EL MM.	
BOLKMS	HEAD	MALFUNCTIONED TAIL ROTOR	04/04/2002 ED A A 078457	10028
BO105S HEAVY LEFT PEDAL FORCES WITH M	10531714 AX WEIGHT ADJUSTMENT. NO OE		ERAA078457 EN: REMOVED BLADES AN	D MOUNTING
FORKS. VISUALLY INSPECTED AND F 33, 34, 102 & 106.	OUND NO DEFECTS. RE-ASSEMBI	LED AND STATIC BALANCED.,	REPAIRED IAW BO-105 REM	1 301, MM CH
BOLKMS BO105S	BRAKE AHA1121MOI	DAMAGED D12 MAIN ROTOR	04/04/2002 ERAA078464	10777
INNER PISTON FROZEN. NEEDED ON				S
MISSING.EXCLUDER DUST BOTH TOR			00/04/000	
BOLKMS ALLSN BO105S 250C20B	SLEEVE 1053176201	ROUGH T/R PITCH CHANGE	03/06/2002 CA020322002	
(CAN) DURING MAINTENANCE TO RE				OF GREASE
AND THE DUPLEX BEARINGS WERE I				
OF A NEEDLE POINT GREASE FITTING LAST PERMANENT SUPERVISOR ON I REQUIREMENTS TO LUBE BEARINGS	PROCEDURES FOR INSPECTION, C	LEANING AND LUBRICATING		
CESSNA LYC LY	`	CRACKED	04/18/2002	
152 O235L2C O2	235L2C 15F22200	RECIPROCATING	AUS20020364	1091
(AUS) DURING PERIODIC ENGINE INS		RE FOUNDCRACKED AT THE B	ALLENDS. TWO HAD CRAC	KS 0.470IN
(12MM) LONG AND THE THIRD HAD A CESSNA LYC	RUDDER HOR	N CRACKED	04/04/2002	13329
172M O320E2D	05310081	TAIL	CA020425003	
(CAN) DURING ROUTINE INSPECTION DAMAGED. WE BELIEVE BY GUSTY V				
ALUMINIUM BACK ON THE HORN WE				
JAMED OVER THE ROLLED ALUM.TH				
IN THE STOP ATTACHEMENT AREA. CESSNA LYC	CONTROL	DROVEN	04/26/2002	7000
CESSNA LYC 172N O320A2D	CONTROL 0510105224	BROKEN AILERON	04/26/2002 2002FA0000542	7000
LEFT AILERON DIRECT CONTROL CA	BLE SEPARATED IN FLIGHT RESU	ILTING IN A FATAL ACCIDENT	THE CABLE P/N 0510105-22	
BADLY RUSTED AT THE POINT OF FA THE PULLEY IN THIS AREA WAS VER PROCEDURES. THE DOORPOST TRIM REQUIREMENT OF THE ANNUAL INSP	Y STIFF DUE TO A BADLY CORRO MUST BE REMOVER AND THE HE. PECTION TO INSPECT THE FLIGHT	DED BEARING. THIS APPEARS ADLINER MUST BE OPENED TO	TO BE A RESULT OF POOR PROPERLY INSPECT THIS	INSPECTION AREA. IT IS A
THINK TWICE BEFORE YOU SIGN OFF CESSNA LYC	SPRING	DISCONNECTED	04/02/2002	14032
172N O320H2AD	03101965	RUDDER	CA020411007	1.002
(CAN) DURING THE PRE-FLIGHT INSP				
(TOWARDS THE RIGHT) WHEN THE N NOTICED THAT THE FRONT PART OF THOUGH IT WAS NOT BROKEN.				
CESSNA LYC	BOLT	SHEARED	03/07/2002	
172P 0320D2J	S21381	MLG	CA020422003	
(CAN) WHILE ATTEMPTING TO REMO MAIN ATTACH BOLT WAS SOMEHOW REMOVAL OF THE BOLT REVEALED T NATURAL LOAD OF THE GEAR AS INS WAS FOUND. THE BOLT WAS REPLACE	/ SEPARATED AS INSTALLED THR FHAT IT HAD BEEN SHEARED ANI STALLED IN THE SUPPORTS. THE	OUGH THE INBOARD SUPPOR O WAS SOMEWHAT SIEZED BU AIRCRAFT WAS INSPECTED FU	T AND THE GEAR LEG. EVE T ALSO HELD IN PLACE BY JRTHER AND NO RELATED	NTUAL THE DAMAGE
NO RECORD FOUND OF CESSNA LYC CE	ESSNA BULKHEAD	CRACKED	03/13/2002	
	5032111 055032111	SPINNER	CA020411005	
(CAN) SECOND PART FAILURE IN THE				R AND AFT
BULKHEAD HAVE A VERY POOR FIT. CESSNA	WIRE	SHORTED	05/01/2002	
CESSNA 172S	WIKE	VOLTAGE REG	05/01/2002 2002FA0000567	
ALTERNATOR FIELD C/B POPED IN FI PRECAUTIONARY LANDING AT MNN SHORTED ON THE GROUNDING POST FIELD.	AN INVESTIGATION OF THE PRO	D SMOKE IN THE COCKPIT, C/F BLEM DETERMINED THAT THI	B POPED AGAIN. THE PILOT E RED VOLTAGE REGULATO	OR WIRE HAD

CESSNA	CONT	AIR BOX	CRACKED	04/10/2002	
182G	O470*	075014421	ENGINE	2002FA0000589	
OPERATING TIM	KS IN HOUSING, BOTH IN ALUMINUM A IE. SUGGEST MORE ATTENTION BE GIVE				
CESSNA	LER FOR BALANCE. LYC	COMPUTER	FAILED	02/22/2002	
182S	TIO540*		AUTOFLIGHT	2002FA0000621	
AN INDICATION TURN OFF SYSTI	LEVEL FLIGHT WITH AUTOPILOT TURN THAT (PITCH WARNING) LIGHT CAME (EM. ANOTHER FLIGHT WITH THE AUTO)	ON WITH A (UP) ARRO PILOT SYSTEM (ON) TH	W. THE PILOT PULLED THE AU IE ELECTRIC TRIM STARTED TO	TOPILOT CIRCUIT BRI ORUN AWAY IN THE N	EAKER TO IOSE UP
THE AUTOPILOT	THE PILOT WENT TO PRESS THE AUTOR CIRCUIT BREAKER TO STOP THE OCCU	JRRENCE AND MANUA			
CESSNA	TEMWHICH INCLUDES THE ELECTRIC T PWA	HUB	CRACKED	04/22/2002	3450
208B	PT6A114A	D6382	PROPELLER	2002FA0000550	3063
PROPELLER WA	S DISASSEMBLED AND INSPECTED FOR	R OVERHAUL. PROPEL	LER HUB WAS STRIPPED, ETC	HED AND DYE PENET	RANT
	ICATIONS OF CRACKS WERE APPEARA				
BUSHING SOCKI CESSNA	ETS. EDDY CURRENT INSPECTION VERI CONT CONT	FIED ALL LOCATIONS VALVE GUIDE	WERE CRACKED. PART WAS RI LOOSE	ETIRED FROM SERVIC 04/19/2002	E.
210L	IO520L IO520L	643767P005	RECIPROCATING	AUS20020378	517
	NDER REVEALED A LEAKING EXHAUS				
INLETGUIDESFE	ELL OUT OF THE HEAD. FURTHER INVES SO LOOSE IN HEAD. PERSONNEL/MAIN'	TIGATION OF THE REM FENANCE ERROR.			
CESSNA	CONT	BRACKET	BROKEN	04/25/2002	6950
402C	TSIO520* LAP BELLCRANK BRACKET BROKE DU	51220466	RT WING	2002FA0000618	CHOW NO
CORROSION.	LAP BELLCRAING BRACKET BROKE DU	E 10 CORROSION FRO	M ENGINE EXHAUST. LEFT WII	NG INSPECTED, PARTS	S SHOW NO
CESSNA	CONT	SPRING	MISINSTALLED	04/02/2002	
421C	GTSIO520*		FUEL PUMP	2002FA0000583	
	L PUMP WAS RECEIVED NEW FROM SU			K . WHEN REMOVED I	FOR
BENCHCHECK, I CESSNA	T WAS DISCOVERED, SPRING IN THE OU	TLET SIDE IS MISINST STUD	ALLED. BROKEN	05/03/2002	3673
550		65412045	RTMLGSTRUT	2002FA0000635	3673
	ULED REPLACEMENT OF THE MLG STRU				
	YING A TENSION LOAD ON THE STUD				
	UE LIMIT, THE CRACK BEGAN APPROX				
	AD BEFORE THE COTTER PIN HOLE. EXA DED THROUGH APPROXIMATELY 80 PEI				
POINT AT	DED THROUGH APPROXIMATELT 80 PEI	CENT OF THE STUD. I	HEPOINT AT WHICH THE FRAG	LIUKE DEUAN IS THE	SAME
CESSNA	PWA	SEAT BACK	CRACKED	04/26/2002	
550	JT15D4	551900921	COCKPIT	2002FA0000647	
	SE ASSEMBLY CRACKED AT SEAT BACI	X ATTACH POINTS. STI	RESS ON SEAT BACK AND MET.	AL FATIGUE PROBABI	LE CAUSE.
SEAT WAS REPA CESSNA	AIRED. PWA	BOLT	WRONG PART	04/30/2002	
550	PW530A	AN66A	GENERATOR	2002FA0000626	
A LOOSE GENER	ATOR GROUND CABLE BOLT WAS DISC				LEFT AND
	GENERATORS. AN AN610A BOLT WAS FO	OUND INSTALLED INST	TEAD OF THE CORRECT AN6-6A	A BOLT. THE BOLT WA	AS TOO
	QUE COULD BE REACHED.	CONTRACTOR	D. L. L. CED	0.4/1.5/2002	
CESSNA 550	PWA PW530A	CONNECTOR	DAMAGED EXTERNAL POWER	04/15/2002 CA020416005	
	PW 330A EPORTED THAT THEY COULD NOT STAF	T FITHER ENGINE USI			LISING
	R. MAIN POWER CABLES AND GROUND				
THE POWER CAL	BLE ENDS BURNED AND MELTED. PAR				
CESSNA	PWA	SERVO	MALFUNCTIONED	04/29/2002	
560XL	PW545A A PHASE INSPECTION, THE AUTO-PILOT	666000178	RUDDER	CA020502027	OCCINIC
	TWEEN THE LOWER AFT RUDDER SEC				
	IAS BEEN RE-ROUTED AS PER MAINTEN				
CESSNA		STIFFENER	CRACKED	03/05/2002	
650	DO I DO MOGE GE I D TIDANAMON GANDON		NLG	53550	cp.rc
	BOARD NOSE GEAR TRUNNION SUPPOF 011-139 AND 6213011-140. POSSIBLY CA			1.0 REPAIRED BY REPI	LACING
CESSNA	GARRTT	HINGE	CRACKED	04/23/2002	
650	TFE731*	6732030	ELEVATOR	2002FA0000627	
	FOUND IN BOTH INBOARD ELEVATOR F				
	TABILIZER AND ARE LOCATED AT THE		H ELEVATOR. THE CRACKS EX	TEND APPROXIMATE	LY .20 INCH
CESSNA	ARE LOCATED ON THE UPPER AFT ENI ALLSN	BRACKET	CRACKED	04/23/2002	
750	AE3007C	DRACKET	ELEVATOR HINGE	CA020429001	
	D WITH CESSNA CUSTOMER LETTER NO	0 0423 DATED APRIL 23			INGE
,	E BRACKET HAS TWO SURFACES: INBD.				
	2 INCH OUTB CRACK DIMENSION: .125 I	*	NBD HINGE BRACKET CRACKE	D. INBDNONE OUTB C	RACK
DIMENSION: .180 CESSNA) INCH. ACTION: RE-INSPECT IN 100 HRS CONT	S CONTROL	BROKEN	04/29/2002	1950
T310R	TSIO520*	0860207180	AILERON	04/29/2002 2002FA0000629	1730
	TROL CABLES HAD STRANDS BROKEN.				LY 70
PERCENT OF ITS	STRANDS BROKEN DUE TO CONTACT				
OF FUSELAGE R	UBBING ON PHENOLIC BLOCK.				

CIRRUS	CONT	MOUNT	CHAFED	11/19/2001	101
SR22	IO550*		ENGINE	2002FA0000524	
	HOUR INSPECTION, A FUEL LINE CLAN				
	Y .006 INTO ONE OF THE ENGINE MOUN IOUNT TUBE. THE ENGINE MOUNT WAS				
	CCURANCE OF THIS CONDITION. THIS A				
	OR THE BRACKET SHORTENED.				
CURTIS	ALLSN	RELAY	FAULTY	03/23/2002	
P40NREED	V1710* CURRENT RELAY (RCR) FAILED. BATTE	A700ZF Ry discharged and	DC GENERATING SY	AUS20020311	
DHAV	PWA	FITTING	CRACKED	03/26/2002	
DHC2MK1	R985AN14B	901230602	MLG FLOAT	CA020430010	
	ON AND STRESS CRACK DEVELOPED ON				
ATTCH P/N 901-2 DHAV	3060-2 WAS REMOVED AND QUARANTI PWA	NED. REPLACEMENT ROD	PART SI 901-23060-2 WAS INSTA LOOSE	ALLED AS PER STC SF 04/11/2002	-97-2.
DHC6300	PT6A27	C6CT10461	TE FLAP CONTROL	CA020416002	
	MPLETING AD CF-80-03 & SB6/390 THE T				THAT
	WAG WAS ALLOWING THE ROD END FI				
DIAMON	ROTA YOURS	O-RING	FAILED	03/24/2002	
DA20A1	ROTAX912F3 LACED ON AIRCRAFT AFTER TROUBLE	PRP0119026 SHOOTING PROPELLE	PROPELLER OF CONTROL SYSTEM AND INS	CA020409001 PECTING OIL PLIMP A	ND LINES
	UND IN PUMP, LINES OR WITH GOVERN				
	IN FRONT OF PITCH CHANGE PISTON C				
	CH. THIS OIL PRESSURE WAS GREATER	THAN RETURN SPRING	FOR PRESSURE AND THE HUB HAS	NO DUMP PROVISION	N IN THIS
AREA TO ALLOV ENSTRM	V OILTO RETURN TO THE LYC	CONNECTING	FAILED	03/01/2002	200
280C	HIO360E1AD	CONNECTING	ENGINE	2002FA0000586	200
	NG ROD BOLT FAILED CAUSING CONNE	CTING ROD TO GO TH			LURE.
	OYED. TOP OF BOLT FAILED CAUSING R				BOLT
FOUND IN BOTTO	OM OF ENGINE CASE IN GOOD CONDITI LYC			ER BOLTS OR RODS. 03/20/2002	
F28C	HIO360E1AD	BULKHEAD VARIOUS	DAMAGED TAILBOOM	AUS20020292	640
	M BULKHEAD AND SKINS CRACKED. IN			110520020272	0.0
EXTRA		SKIN	DELAMINATED	05/06/2002	210
EA300	CIVILIDES A MINATION DISCOVERED CO	ER863072500	WING	2002FA0000577	DE 4 10 70"
	SKIN DELAMINATION DISCOVERED. CF FOP SIDE OF RIGHT WING AND EXTEND				
	DING EDGE AND EXTENDS 11.5" AFT CO				
	ERATED BY THE SAME OWNER. CAUSE				
OF DAMAGE.				0.444.949.00	
GROB G102ASTIR	LYC AEIO540D4A5	HANDLE GH115TA	FAILED MLG	04/12/2002 2002FA0000514	87
	WAS CYCLED TO THE DOWN POSITION				EAR DOWN
	N AND THE NOSE GEAR DOWN LIGHTS				
	S FOR THE NOSE GEAR DOWN HAD FAII				
	THE GEAR HANDLE HAD FAILED. NEW	GEAR HANDLE CONT PUMP			ED NORMAL. 14
GROB G102ASTIR	LYC AEIO540D4A5	X030001	FAILED HYD SYSTEM	04/15/2002 2002FA0000515	14
	EAR WAS SWLECTED IN FLIGHT TO THI				THE DOWN
	OSITION. THE AIRCRAFT WAS YAWED A				
	TAKEN TO MAINTENANCE AND PLACEI				
NORMAL.	JRNEDUP), A NEW HYDRAULIC ASSEME	BLY WAS INSTALLED.	THE LANDING GEAR WAS CYC	LED IAW MM, SYSTE	M CHECKED
GULSTM		CONTROL	BROKEN	05/14/2002	8150
500B		550000151	ELEVATOR TRIM	2002FA0000642	
	I CABLE BROKE WHILE ON APPROACH.				
	TIVATED. CORRECTIVE ACTION WAS T ON ALSO REPLACED THE RUDDER TRIM		KIM ACTUATOR AND REPLACE	ALL 4 ELEVATOR TR	IM CABLES.
HUGHES	ON ALSO REFLACED THE RODDER TRIV	BEARING RACE	CRACKED	04/20/2001	
369D		369D25146	M/R TRANSMISSION	2002FA0000582	
	ROTOR TRANSMISSION FOR AN OIL LE	AK. FOUND FORWARI	D TAIN ROTOR O/P ASSEMBLY	PINION BEARING INN	ER RACE.
	ACED BEARING ASSEMBLY.	CONTRACTOR	PROVEN	02/15/2002	
HUGHES 369D	ALLSN 250C20	STRUT 369H600152	BROKEN MLG	03/15/2002 2002FA0000545	
	G STRUT BROKEN AT THE DRAG BRACE			20021110000010	
HUGHES	ALLSN	BLEED VALVE	ERRATIC	03/22/2002	
369D	250C20B	OF THE AND DOTAGE	ENGINE	2002FA0000544	450
	THE COMPRESSOR STALLED A COUPLE D VALVE AND REPLACED WITH A SERV			N A STABLE POWER S	ETTING.
HUGHES	ALLSN	TORQUE TUBE	CRACKED	03/18/2002	
369D	250C20B 369A7500501	369H75319	T/R PEDAL	CA020430004	
	TICED LOSS OF T/R AUTHORITY WITH A				
	HUTDOWN T/R PEDAL ASSEMBLY WAS		LMOST 360 DEGREES CRACK	ORIGINATED FROM U	NDER
HUGHES	G WHERE THE ATTACH HOLE IS LOCAT ALLSN	ED. SPRAG CLUTCH	BROKEN	02/22/2002	
369D	250C20B	369D25351	MAIN ROTOR	CA020430005	
	E 300 HOUR INSPECTION OF THE SPRAG		OUND THAT ONE OF THE SPRACE	GS WAS BROKEN. THE	E BREAK
WAS AT THE FA	R END OF THE SPRAG WHERE THE PROP	ILE CHANGES.			

	GARRTT	ACTUATOR	LEAKING	04/01/2002	
35A	TFE73122B	2327100506	MLG	CA020417003	
	EXTENSION, 3 GREENS, 1 UNSAFE C				
	ARRIED OUT WITH SAME RESULT. G FOUND RT GEAR ACTUATOR LEAKI				VING CARRIEI
LEAR	FOUND RT GEAR ACTUATOR LEAK	BEARING	SHIFTED	04/16/2002	
45LEAR		MS276416	ELEVATOR HINGE	CA020418001	
	ARRING OUT INSPECTION ON THE E				ECTION
FOUNDOUTBOA	ARD HINGE BEARING HAD SHIFTED	CAUSING ELEVATOR TO	O BIND. THIS CAUSED WEAR	R ON THE CENTER HINGE	PICK-UP,
	DISCONNECT ASSY.				
MAULE	LYC	COTTER PIN	MISSING	05/02/2002	149
MX7235	IO540* ED HE COULD NOT TRIM ALERIONS.	DEMOVED COVED AND	TRIM WHEEL	2002FA0000569	EEL WAS
	ER KEY AND NUT HAD BACKED OFF,				
	HTENED NUT AND PLACED COTTER		. Ht 10 SEIDE 10 SIDE IB00	To our min to come !	
MOONEY	CONT	CONTROL ROD	CRACKED	02/28/2002	
M20C	IO360*	7300051	AILERON	AUS20020382	
` '	T AILERON CONTROL LINKS CRACI				
MOONEY M20C	LYC O360A1D	STRUT 5200011	CRACKED MAIN LANDING	04/08/2002 AUS20020351	
	LANDING GEAR LEG ASSEMBLY CR			AU320020331	
MOONEY	LYC	ACTUATOR	FAILED	04/26/2002	4997
M20F	IO360A1A	41960016	MLG	2002FA0000625	
	LECTED GEAR DOWN INCOMPLETE				
	CRAFT WAS RETREIVED, PLACED O		*		
	KES) COUPLING BETWEEN THE MO				
ELECTRICALLY OLD.	. PROBABLE CAUSE: MOTOR/ TRAN	SMISSION COUPLING SI	EPARATED, CAUSING MOTO	JK 10 SEIED. COUPLING I	S 30+YEARS
PILATS	PWA	FAN BLADE	BENT	02/20/2002	
PC1245	PT6A67B 9686781507	5113412233	CABIN HEATER	CA020225002	
	PORTS GROWLING NOISE WHEN TU				OUND I.D.TAG
	E NET JAMMED IN FAN SHROUD. CA				
	FAIRLY LARGE GRILL OPENINGS. F				ETS. TAGS
	TACHED WITH WIRE CABLE. TAGS :				
PILATS PC1245	PWA PT6A67B	PRESSURE	FAILED HYD SYSTEM	03/20/2002 CA020327004	
	AKEOFF, REPORTED THE HYDRAULI	C PUMP SEEMED TO RI			FLOOR
	OT FUNCTIONING. INVESTIGATION F				
	IYDRAULIC PUMP TO RUN UNTILL T				
THE SWITCH W	AS REPLACED WITH NEW, AND THE	SYSTEM			
PIPER	LYC	TORQUE LINK	DAMAGED	04/16/2002	6416
PA28140	O320*	PA6469100	LTMLGSTRUT	2002FA0000623	ADOME
	NG LT LOWER STRUT ASSEMBLY SE SS AT THE LOWER STRUT ATTACHM				
	ER. THIS PN TORQUE LINK REQUIRE				
	AND REPLACE WITH LATEST TORQU			, , , , , , , , , , , , , , , , , , , ,	
PIPER	LYC	FLOAT	INOPERATIVE	04/02/2002	
PA28161	O320D3G		CARBURETOR	2002FA0000538	
	VAS FOUND INOPERABLE CONDITION OF THE CAT OF				
	OR THROAT. CLOSER INSPECTION R	EVEALED A SMALL HO	LE IN THROAT PASSING INT	O BOWL, OTHER SMALL	CRACKS AND
	CASTING WAS NOTICED IN SAME AT	DEA OFTHOAT			
	CASTING WAS NOTICED IN SAME AT		CORRODED	03/21/2002	
PIPER	LYC	SPAR	CORRODED LT & RT WING	03/21/2002 CA020327002	
PIPER PA28180		SPAR 6205600	LT & RT WING	CA020327002	ECESSITATED
PIPER PA28180 (CAN) PLATES T REPLACEMENT	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACH THIS WILL CAUSE DISSIMILAR MET	SPAR 6205600 HMENT OF AFT WING SF AL. THE PLATES ARE R	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A	TTACHED
PIPER PA28180 (CAN) PLATES TREPLACEMENT PHOTO SHOWS	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACH THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S	SPAR 6205600 HMENT OF AFT WING SF AL. THE PLATES ARE R PAR INSPECTED FOR CO	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A	TTACHED
PIPER PA28180 (CAN) PLATES TREPLACEMENT PHOTO SHOWS ADEQUATE CLI	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACH THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT SE EANINGAND CORROSION TREATME	SPAR 6205600 HMENT OF AFT WING SF AL. THE PLATES ARE R PAR INSPECTED FOR CO	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N ONDITION OF CORROSION A	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV	TTACHED
PIPER PA28180 (CAN) PLATES TREPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACH THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S EANINGAND CORROSION TREATME. LYC	SPAR 6205600 HMENT OF AFT WING SF 'AL. THE PLATES ARE R PAR INSPECTED FOR CO NT HUB	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N ONDITION OF CORROSION A MISREPAIRED	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002	TTACHED
PIPER PA28180 (CAN) PLATES T REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACE THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S EANINGAND CORROSION TREATME. LYC O540J3A5	SPAR 6205600 MENT OF AFT WING SE AL. THE PLATES ARE R PAR INSPECTED FOR CO NT HUB C32303	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N ONDITION OF CORROSION A MISREPAIRED PROPELLER	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356	TTACHED ICEABLE.
PIPER PA28180 (CAN) PLATES T REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACE THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT SE ANINGAND CORROSION TREATME LYC O540J3A5 ER HUB HAD BEEN MACHINED IN T	SPAR 6205600 IMENT OF AFT WING SE AL. THE PLATES ARE R PAR INSPECTED FOR CO NT HUB C32303 HE AREA OF THE PRELO	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N ONDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B	TTACHED ICEABLE. Y A GROUND
PIPER PA28180 (CAN) PLATES T REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACE THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S EANINGAND CORROSION TREATME. LYC O540J3A5	SPAR 6205600 IMENT OF AFT WING SE AL. THE PLATES ARE R PAR INSPECTED FOR CO NT HUB C32303 HE AREA OF THE PRELO	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N ONDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B	TTACHED ICEABLE. Y A GROUND
PIPER PA28180 (CAN) PLATES 1 REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL STRIKE. MACHI PIPER PA28R201	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACH THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S. EANINGAND CORROSION TREATME. LYC O540J3A5 ER HUB HAD BEEN MACHINED IN T NING INTHIS AREA IS NOT APPROVE	SPAR 6205600 MENT OF AFT WING SF AL. THE PLATES ARE R PAR INSPECTED FOR CO NT HUB C32303 HE AREA OF THE PRELI ED BY THE MANUFACT ADAPTER 99047000	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N DNDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM. "URER. UNAPPROVED REPAINED INDUCTION	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B IR. PERSONNEL/MAINTEN 03/26/2002 2002FA0000526	TTACHED ICEABLE. Y A GROUND IANCE ERROR 272
PIPER PA28180 (CAN) PLATES T REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL STRIKE. MACHI PIPER PA28R201 THE ALTERNAT	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACH THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S CANINGAND CORROSION TREATME LYC O540J3A5 ER HUB HAD BEEN MACHINED IN T NING INTHIS AREA IS NOT APPROVI	SPAR 6205600 MENT OF AFT WING SP AL. THE PLATES ARE R PAR INSPECTED FOR CO NT HUB C32303 HE AREA OF THE PRELO ED BY THE MANUFACT ADAPTER 99047000 Y 3 (AN470AD3) SOLID F	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N DNDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM. PURER. UNAPPROVED REPAL SHEARED INDUCTION RIVETS. THE 3 RIVETS SHEAL	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B IR. PERSONNEL/MAINTEN 03/26/2002 2002FA0000526 RED AND THE AIR DOOR	TTACHED ICEABLE. Y A GROUND IANCE ERROR 272 BECAME
PIPER PA28180 (CAN) PLATES TREPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL STRIKE. MACHI PIPER PA28R201 THE ALTERNAT LODGED IN THI	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACE THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT SE EANINGAND CORROSION TREATME LYC O540J3A5 ER HUB HAD BEEN MACHINED IN T NING INTHIS AREA IS NOT APPROVI	SPAR 6205600 MENT OF AFT WING SE AL. THE PLATES ARE R PAR INSPECTED FOR CO NT HUB C32303 HE AREA OF THE PRELE ED BY THE MANUFACT ADAPTER 99047000 Y 3 (AN470AD3) SOLID R BODY. THIS OCCURREI	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N DNDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM IURER. UNAPPROVED REPAI SHEARED INDUCTION RIVETS. THE 3 RIVETS SHEAD	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B IR. PERSONNEL/MAINTEN 03/26/2002 2002FA0000526 RED AND THE AIR DOOR	TTACHED ICEABLE. Y A GROUND IANCE ERROR 272 BECAME
PIPER PA28180 (CAN) PLATES T REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL STRIKE. MACHI PIPER PA28R201 THE ALTERNAT LODGED IN THI BACK DOWN S.	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACE THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S EANINGAND CORROSION TREATME LYC O540J3A5 ER HUB HAD BEEN MACHINED IN T NING INTHIS AREA IS NOT APPROVI E AIR DOOR HINGE IS ATTACHED B' E FUEL CONTROL SERVO THROTTLE AFELY. RECOEND LARGER SUPPORT	SPAR 6205600 MENT OF AFT WING SP AL. THE PLATES ARE R PAR INSPECTED FOR CO NT HUB C32303 HE AREA OF THE PRELO ED BY THE MANUFACT ADAPTER 99047000 Y 3 (AN470AD3) SOLID R BODY. THIS OCCURREI F FOR HINGE AND MOR	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N DNDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM URER. UNAPPROVED REPAI SHEARED INDUCTION RIVETS. THE 3 RIVETS SHEAD OON TAKEOFF AND THE PILE	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B IR. PERSONNEL/MAINTEN 03/26/2002 2002FA0000526 RED AND THE AIR DOOR I OT WAS ABLE TO SET TH	TTACHED ICEABLE. Y A GROUND IANCE ERROR 272 BECAME
PIPER PA28180 (CAN) PLATES T REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL STRIKE. MACHI PIPER PA28R201 THE ALTERNAT LODGED IN THI BACK DOWN S. PIPER	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACE THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S EANINGAND CORROSION TREATME LYC O540J3A5 ER HUB HAD BEEN MACHINED IN T NING INTHIS AREA IS NOT APPROVE E AIR DOOR HINGE IS ATTACHED B' E FUEL CONTROL SERVO THROTTLE AFELY. RECOEND LARGER SUPPORT LYC	SPAR 6205600 MENT OF AFT WING SE AL. THE PLATES ARE R PAR INSPECTED FOR CO NT HUB C32303 HE AREA OF THE PRELO ED BY THE MANUFACT ADAPTER 99047000 Y 3 (AN470AD3) SOLID R BODY. THIS OCCURRED FOR HINGE AND MOR DOUBLER	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N ONDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM TURER. UNAPPROVED REPAI SHEARED INDUCTION RIVETS. THE 3 RIVETS SHEAT DON TAKEOFF AND THE PILE CRACKED	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B IR. PERSONNEL/MAINTEN 03/26/2002 2002FA0000526 RED AND THE AIR DOOR! 04/03/2002	TTACHED ICEABLE. Y A GROUND IANCE ERROR 272 BECAME
PIPER PA28180 (CAN) PLATES 1 REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL STRIKE. MACHI PIPER PA28R201 THE ALTERNAT LODGED IN THI BACK DOWN S. PIPER PA28R201	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACH THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S: EANINGAND CORROSION TREATME: LYC O540J3A5 ER HUB HAD BEEN MACHINED IN T NING INTHIS AREA IS NOT APPROVE E AIR DOOR HINGE IS ATTACHED B' E FUEL CONTROL SERVO THROTTLE AFELY. RECOEND LARGER SUPPORT LYC IO360C1C6	SPAR 6205600 MENT OF AFT WING SF AL. THE PLATES ARE R. PAR INSPECTED FOR CONT HUB C32303 HE AREA OF THE PRELO ED BY THE MANUFACT ADAPTER 99047000 Y 3 (AN470AD3) SOLID R BODY. THIS OCCURREI F FOR HINGE AND MOR DOUBLER 3564016	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N DNDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM. "URER. UNAPPROVED REPAI SHEARED INDUCTION RIVETS. THE 3 RIVETS SHEAD OON TAKEOFF AND THE PILE CRACKED AILERON	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B IR. PERSONNEL/MAINTEN 03/26/2002 2002FA0000526 RED AND THE AIR DOOR I OT WAS ABLE TO SET TH	TTACHED ICEABLE. Y A GROUND IANCE ERROR 272 BECAME E AIRCRAFT
PIPER PA28180 (CAN) PLATES 1 REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL STRIKE. MACHI PIPER PA28R201 THE ALTERNAT LODGED IN THI BACK DOWN S. PIPER PA28R201 (CAN) DURING	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACE THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S EANINGAND CORROSION TREATME LYC O540J3A5 ER HUB HAD BEEN MACHINED IN T NING INTHIS AREA IS NOT APPROVE E AIR DOOR HINGE IS ATTACHED B' E FUEL CONTROL SERVO THROTTLE AFELY. RECOEND LARGER SUPPORT LYC	SPAR 6205600 MENT OF AFT WING SF AL. THE PLATES ARE R PAR INSPECTED FOR CONT HUB C32303 HE AREA OF THE PRELO ED BY THE MANUFACT ADAPTER 99047000 Y 3 (AN470AD3) SOLID R BODY. THIS OCCURRED T FOR HINGE AND MOR DOUBLER 3564016 EVENT (AILERON ADJU	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N DNDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM. PURER. UNAPPROVED REPAI SHEARED INDUCTION RIVETS. THE 3 RIVETS SHEAD OON TAKEOFF AND THE PILE CRACKED AILERON STMENT), WE DISCOERED T	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B IR. PERSONNEL/MAINTEN 03/26/2002 2002FA0000526 RED AND THE AIR DOOR I OT WAS ABLE TO SET TH	TTACHED ICEABLE. Y A GROUND IANCE ERROR 272 BECAME E AIRCRAFT
PIPER PA28180 (CAN) PLATES T REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL STRIKE. MACHI PIPER PA28R201 THE ALTERNAT LODGED IN THI BACK DOWN S. PIPER PA28R201 (CAN) DURING DOUBLER WAS	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACH THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S. EANINGAND CORROSION TREATME. LYC O540J3A5 ER HUB HAD BEEN MACHINED IN T NING INTHIS AREA IS NOT APPROVI E AIR DOOR HINGE IS ATTACHED B' E FUEL CONTROL SERVO THROTTLE AFELY. RECOEND LARGER SUPPORT LYC IO360C1C6 AN UNSCHEDULED MAINTENANCE	SPAR 6205600 MENT OF AFT WING SF AL. THE PLATES ARE R PAR INSPECTED FOR CONT HUB C32303 HE AREA OF THE PRELO ED BY THE MANUFACT ADAPTER 99047000 Y 3 (AN470AD3) SOLID R BODY. THIS OCCURRED T FOR HINGE AND MOR DOUBLER 3564016 EVENT (AILERON ADJU	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N DNDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM. PURER. UNAPPROVED REPAI SHEARED INDUCTION RIVETS. THE 3 RIVETS SHEAD OON TAKEOFF AND THE PILE CRACKED AILERON STMENT), WE DISCOERED T	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B IR. PERSONNEL/MAINTEN 03/26/2002 2002FA0000526 RED AND THE AIR DOOR I OT WAS ABLE TO SET TH	TTACHED ICEABLE. Y A GROUND IANCE ERROR 272 BECAME E AIRCRAFT
PIPER PA28180 (CAN) PLATES 1 REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL STRIKE. MACHI PIPER PA28R201 THE ALTERNAT LODGED IN THI BACK DOWN S. PIPER PA28R201 (CAN) DURING DOUBLER WAS PIPER PA28RT201	LYC O360A4A OBOTH THE LEFT & RIGHT ATTACH THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT SI EANINGAND CORROSION TREATME LYC O540J3A5 ER HUB HAD BEEN MACHINED IN T NING INTHIS AREA IS NOT APPROVE E AIR DOOR HINGE IS ATTACHED B' E FUEL CONTROL SERVO THROTTLE AFELY. RECOEND LARGER SUPPORT LYC IO360C1C6 AN UNSCHEDULED MAINTENANCE IS CRACKED ON THE INBOARD TOP COLYC IO360A1A	SPAR 6205600 MMENT OF AFT WING SP AAL. THE PLATES ARE R PAR INSPECTED FOR CO NT HUB C32303 HE AREA OF THE PRELO ED BY THE MANUFACT ADAPTER 99047000 Y 3 (AN470AD3) SOLID R BODY. THIS OCCURRE I FOR HINGE AND MOR DOUBLER 3564016 EVENT (AILERON ADJU DRNER. THE CRACK WA TRUNNION 6705403	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N DNDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM URER. UNAPPROVED REPAI SHEARED INDUCTION RIVETS. THE 3 RIVETS SHEAD OON TAKEOFF AND THE PILE CRACKED AILERON STMENT), WE DISCOERED TAS 1 INCH LONG. BROKEN NLG	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B IR. PERSONNEL/MAINTEN 03/26/2002 2002FA0000526 RED AND THE AIR DOOR I OT WAS ABLE TO SET TH 04/03/2002 CA020503002 THAT THE LT AILERON OU 04/16/2002 2002FA0000518	TTACHED ICEABLE. Y A GROUND IANCE ERROR 272 BECAME E AIRCRAFT JTBOARD 5554
PIPER PA28180 (CAN) PLATES 1 REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL STRIKE. MACHI PIPER PA28R201 THE ALTERNAT LODGED IN THI BACK DOWN S. PIPER PA28R201 (CAN) DURING DOUBLER WAS PIPER PA28RT201 DURING ANNU.	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACH THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S: EANINGAND CORROSION TREATME: LYC O540J3A5 ER HUB HAD BEEN MACHINED IN T NING INTHIS AREA IS NOT APPROVE E AIR DOOR HINGE IS ATTACHED B' E FUEL CONTROL SERVO THROTTLE AFELY. RECOEND LARGER SUPPORT LYC IO360C1C6 AN UNSCHEDULED MAINTENANCE I CRACKED ON THE INBOARD TOP COLYC IO360A1A AL INSPECTION, FOUND NOSE STRU	SPAR 6205600 MENT OF AFT WING SP AL. THE PLATES ARE R. PAR INSPECTED FOR CO NT HUB C32303 HE AREA OF THE PRELO ED BY THE MANUFACT ADAPTER 99047000 Y 3 (AN470AD3) SOLID R BODY. THIS OCCURRED T FOR HINGE AND MOR DOUBLER 3564016 EVENT (AILERON ADJU DRNER. THE CRACK WA TRUNNION 6705403 T HOUSING BOSS WHEF	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N DNDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM. "URER. UNAPPROVED REPAISHEARED INDUCTION RIVETS. THE 3 RIVETS SHEAD ON TAKEOFF AND THE PILE CRACKED AILERON STMENT), WE DISCOERED TAS 1 INCH LONG. BROKEN NLG RE LOWER DRAG LINK ATTA	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B IR. PERSONNEL/MAINTEN 03/26/2002 2002FA0000526 RED AND THE AIR DOOR I 04/03/2002 CA020503002 THAT THE LT AILERON OU 04/16/2002 2002FA0000518 ACHES, BROKEN. HALF OI	TTACHED ICEABLE. Y A GROUND IANCE ERROR 272 BECAME E AIRCRAFT JTBOARD 5554 F BOSS WAS
PIPER PA28180 (CAN) PLATES T REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL STRIKE. MACHI PIPER PA28R201 THE ALTERNAT LODGED IN THI BACK DOWN S. PIPER PA28R201 (CAN) DURING DOUBLER WAS PIPER PA28R201 DURING ANNU. MISSING, THE A	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACH THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S. EANINGAND CORROSION TREATME. LYC O540J3A5 ER HUB HAD BEEN MACHINED IN T NING INTHIS AREA IS NOT APPROVE E AIR DOOR HINGE IS ATTACHED B' FUEL CONTROL SERVO THROTTLE AFELY. RECOEND LARGER SUPPORT LYC IO360C1C6 AN UNSCHEDULED MAINTENANCE I CRACKED ON THE INBOARD TOP COLYC IO360A1A AL INSPECTION, FOUND NOSE STRU SSEMBLY WAS SO COVERED WITH O	SPAR 6205600 MENT OF AFT WING SF AL. THE PLATES ARE R. PAR INSPECTED FOR CO NT HUB C32303 HE AREA OF THE PRELICE BY THE MANUFACT ADAPTER 99047000 Y 3 (AN470AD3) SOLID R BODY. THIS OCCURREI F FOR HINGE AND MOR DOUBLER 3564016 EVENT (AILERON ADJU DRNER. THE CRACK WA TRUNNION 6705403 I HOUSING BOSS WHER GREASE, MISSING PORT	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N ONDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM. IURER. UNAPPROVED REPAI SHEARED INDUCTION RIVETS. THE 3 RIVETS SHEAD ON TAKEOFF AND THE PILE CRACKED AILERON STMENT), WE DISCOERED TAS 1 INCH LONG. BROKEN NLG RE LOWER DRAG LINK ATTATION OF BOSS WASNT VISAB	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B IR. PERSONNEL/MAINTEN 03/26/2002 2002FA0000526 RED AND THE AIR DOOR I 04/03/2002 CA020503002 THAT THE LT AILERON OU 04/16/2002 2002FA0000518 ACHES, BROKEN. HALF OI BLE UNTIL CLEANED OFF	TTACHED ICEABLE. Y A GROUND IANCE ERROR 272 BECAME E AIRCRAFT JTBOARD 5554 F BOSS WAS UNKNOWN
PIPER PA28180 (CAN) PLATES T REPLACEMENT PHOTO SHOWS ADEQUATE CLI PIPER PA28236 (AUS) PROPELL STRIKE. MACHI PIPER PA28R201 THE ALTERNAT LODGED IN THI BACK DOWN S. PIPER PA28R201 (CAN) DURING DOUBLER WAS PIPER PA28RT201 URING ANNU. MISSING, THE A HOW LONG HA	LYC O360A4A O BOTH THE LEFT & RIGHT ATTACE THIS WILL CAUSE DISSIMILAR MET CONDITION. THE ALUMINUM AFT S. EANINGAND CORROSION TREATME. LYC O540J3A5 ER HUB HAD BEEN MACHINED IN T NING INTHIS AREA IS NOT APPROVE EAIR DOOR HINGE IS ATTACHED B' EFUEL CONTROL SERVO THROTTLE AFELY. RECOEND LARGER SUPPORT LYC IO360C1C6 AN UNSCHEDULED MAINTENANCE IS CRACKED ON THE INBOARD TOP COLYC IO360A1A AL INSPECTION, FOUND NOSE STRU' SSEMBLY WAS SO COVERED WITH O D BEEN WHEN, SPECULATE, HARD I	SPAR 6205600 MENT OF AFT WING SP AL. THE PLATES ARE R PAR INSPECTED FOR CONT HUB C32303 HE AREA OF THE PRELICED BY THE MANUFACT ADAPTER 99047000 Y 3 (AN470AD3) SOLID R BODY. THIS OCCURREI FOR HINGE AND MOR DOUBLER 3564016 EVENT (AILERON ADJU DRNER. THE CRACK WATRUNNION 6705403 IT HOUSING BOSS WHER GREASE, MISSING PORT ANDING OR MISRIGGE	LT & RT WING PAR TO FUSELAGE FOUND B IVETED TO THE AFT SPAR. N ONDITION OF CORROSION A MISREPAIRED PROPELLER OAD PLATE SHELF TO REM PURER. UNAPPROVED REPAI SHEARED INDUCTION RIVETS. THE 3 RIVETS SHEAD OON TAKEOFF AND THE PILE CRACKED AILERON STMENT), WE DISCOERED TAS 1 INCH LONG. BROKEN NLG RE LOWER DRAG LINK ATTATION OF BOSS WASNT VISAE D SYSTEM COULD HAVE CO	CA020327002 ADLY CORRODED AND N NEW PLATES ORDERED. A ND DETERMINDED SERV 04/12/2002 AUS20020356 OVE DAMAGE CAUSED B IR. PERSONNEL/MAINTEN 03/26/2002 2002FA0000526 RED AND THE AIR DOOR I 04/03/2002 CA020503002 THAT THE LT AILERON OU 04/16/2002 2002FA0000518 ACHES, BROKEN. HALF O' BLE UNTIL CLEANED OFF DNTRIBUTED TO FAILURE	TTACHED ICEABLE. Y A GROUND IANCE ERROR. 272 BECAME E AIRCRAFT JTBOARD 5554 F BOSS WAS
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 PIPER
 LYC
 AIR BOX
 CRACKED
 04/29/2002

 PA44180
 O360E1A6
 86245834
 ENG CARBURETOR
 2002FA0000653

DURING 100 HOUR INSPECTION, TECH FOUND RIGHT AND LEFT ENGINE CARBURETOR HEAT AIRBOXES CRACKED. RIGHT AIRBOX WAS CRACKED AT HOT AIR INLET, LOCATED AT THE POINT WHERE TUBE IS WELDED TO AIRBOX AND EXTENDING HALFWAY AROUND THE TUBE. LEFT AIRBOX WAS CRACKED AT THE COLD AIR INLET AND EXTENDED ALMOST ALL THE WAY AROUND THE TUBE, RESULTING IN ALMOST COMPLETE SEPARATION OF THE TUBE FROM AIRBOX. CAUSE: MAY BE POOR DESIGN OF AIRBOX, WEAK WELDS AT BOTH HOT AND COLD AIR TUBES.

SKRSKY BLADE DEBONDED 04/04/2002 9650

S61N 6117020201067 MAINROTOR ERAA078459

ABRASION STRIP DEBONDING ABOUT 2 FEET FROM END. LAST POCKET NR 25 CRACKED ON TOP AND BOTTOM, COMING SEPERATED FROM SPAR. CUFF LEAKING AT BOLTS, NR 25 POCKET CRACKED AND VOID, O/B ABRASION STRIP VOID, CTR ABRAISION STRIP VOID, NR 'S 13, 15, 16 POCKETS VOID, NR 12 POCKET CRACKED, POLY SPLICE COVER ERRODED. ACTION TAKEN: REPAIRED AS PER 8130-3 BLOCK NR 13.

 SKRSKY
 GE
 LOCK
 LOOSE
 02/21/2002

 S61N
 CT581401
 M/R GEARBOX
 CA020411004

(CAN) AT FREEWHEEL CHANGE LOCKS WERE LOOSE. GEARS WERE REPLACED FOR FURTHER INSPECTION IN SHOP. PARTS WERE REMOVED FROM MAIN GEARBOX.

SNIAS BEARING FROZEN 03/27/2002 3849

AS350B2 YAW CONTROL 2002FA0000532

DURING A SCHEDULED INSPECTION ON THIS AIRCRAFT, AEC SL WAS BEING COMPLIED WITH. THIS LETTER HAS LOOKING FOR OUT OF ROUND HOLE CONDITION ON THE YAW CONTROL LOAD COMPENSATOR LEVER. THE ARM ONLY MOVES APPROXIMATELY .30 DEGREES. WHEN THE CONTROL WAS REMOVED, IT WAS FOUND THAT THE BEARING HAD FROZEN. IT STILL MOVED IN ITS .30 DEGREE RANGE BUT THE REST OF THEBEARING WAS FROZEN AND ROUGH.

 SNIAS
 TMECA
 BEARING
 DELAMINATED
 03/21/2002

 AS350BA
 ARRIEL1B
 704A33633208
 MAIN ROTOR
 CA020424002

(CAN) UPON POST FLIGHT INSPECTION IT WAS FOUND THAT THE OUTBOARD ENDS OF THE SHPERICAL THRUST BEARINGS HAD BECOME DELAMINATED BEYOND SERVICEABLE LIMITS. THIS WAS DETERMINED BY INSERTING A FEELING GAUGE INTO THE VISIBLE CRACK IN THE ELASTOMER. PARTS WERE REPLACED WITH NEW ONES, NO FURTHER

ZLIN LYC SPRING BROKEN 03/18/2002 Z242L AEIO360A1B6 Z4242170001 NLG STEERING CA020408008

(CAN) A STUDENT PILOT REPORTED EXCESSIVE MOVEMENT IN THE NOSE GEAR STEERING SYSTEM. A MAINTENANCE CHECK REVEALED THAT THE LT NOSE GEAR STEERING SPRING WAS BROKEN. THE SPRING WAS REPLACED USING THE MINIMUM COIL DISTANCE SETTING ON THE L/H &R/H SPRINGS. THE PROBLEM MAY BE RELATED TO NOT HAVING THE AIRCRAFT ROLLING BEFORE STEERING THE AIRCRAFT LEFT OR RIGHT.

FEDERAL AVIA	OF TRANSPORTION ADMINISTRA	NOITA	OPER. Control No. ATA Code 1. A/C Reg. No.	N-	Comments (Describe the malfunction or defect and the circumstances under which it occurred. State probable cause and recommendations to prevent recurrence.)	DISTRICT OFFICE BWO	OPERATOR DESIGNATOR	<u>)00</u>
Enter pertinent da	ta MANUFACT	URER	MODEL/SERIES	SERIAL NUMBER	1	Ë	\prod	
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3. POWERPLAN	IT					СОММ		
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					Optional Information:	OPER.	- - - - - - - - -	TELEPHONE NUMBER
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					Accident; Date Incident; Date	REP.ST.	SUBMITTED	TELEP
FAA FORM 8010-4	(10-92) SUPERSE	DES PRE	VIOUS EDITIONS					
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U.S. Department of Transportation

Federal Aviation Administration

Flight Standards Service
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